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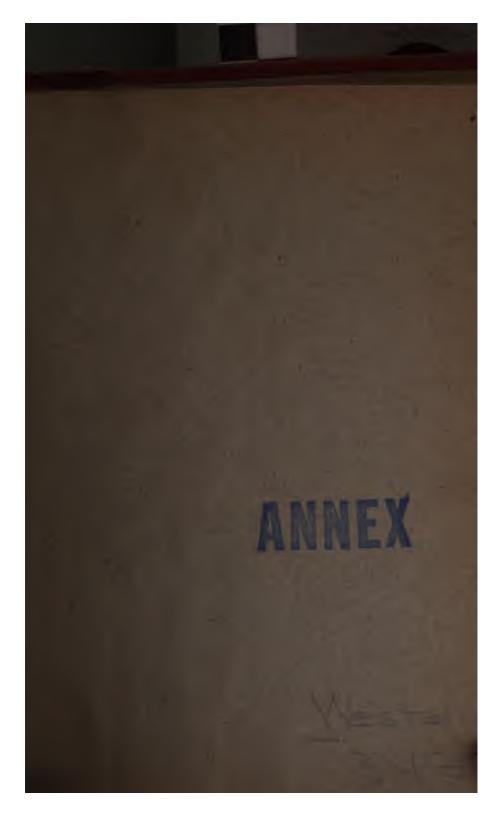
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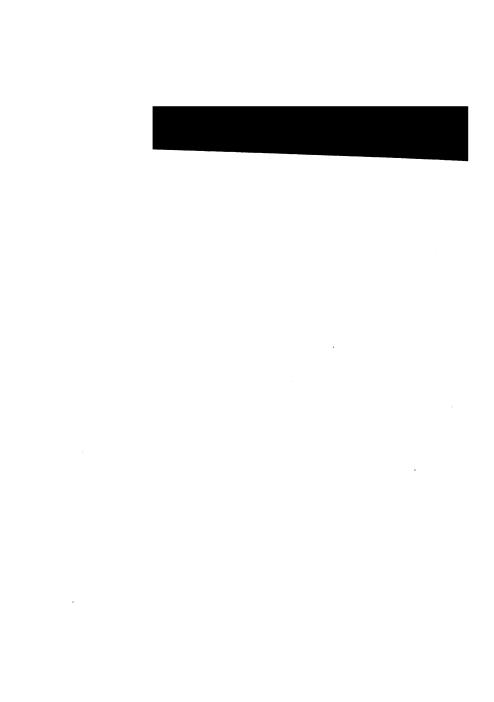
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1898

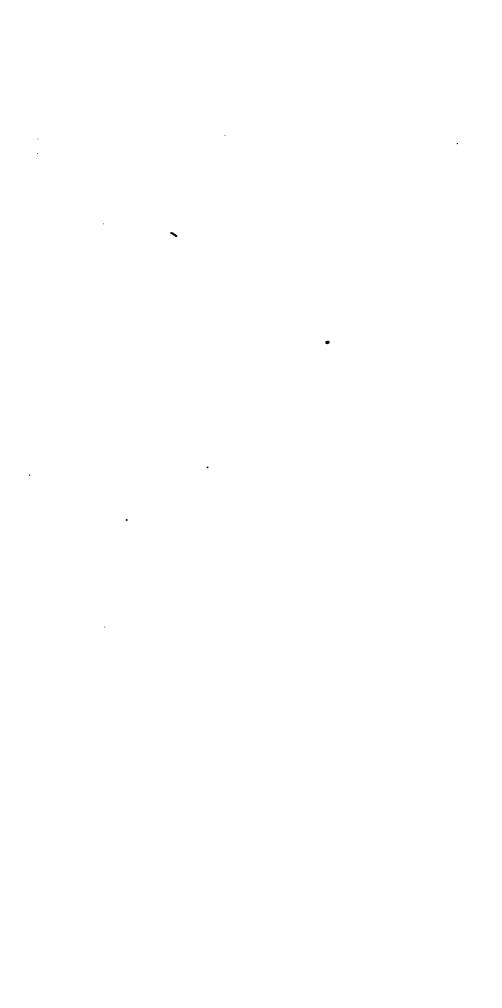
SUPPLY CATALOGUE

WESTERN ELECTRIC

NEW YORK

CHICAGO





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Electric Light Supplies

Western Electric Company

Chicago

227 to 278 South Clinton Street

242 to 258 South Jefferson Street 37 to 45 West Congress Street

New York Bothune and West Streets.

London 79 Coleman Street

Antwerp 33 Rue Boudewyns Berlin S. O.

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ASTOR, LENOX AND TILDEM FOUNDATIONS. 1901

HACY WIM OLISUS VEASILI

Introductory

ED Electrical trade, in referring to this copy of our Electric Light Catalogue, will note that it covers only such material as is specially adapted to electric light work, and that in addition to the material listed herein we carry a complete stock of both Bell and Railway supplies, and can fur-

nish promptly anything in the electrical line, even though we do not list it.

De issue for the use of the Electric Railway trade a catalogue devoted to that branch of the business, and will, on request, mail copies to any of our Electric Light customers who have use for it.

Our blectric Light Supplies are of the highest quality, and every article is fully guaranteed.

Western Electric Company

1898.

TERMS.

OUR terms to people of established credit are 30 days net.

Unless your standing is known to us, or you have a rating with the Agencies, please have statement of your financial condition and satisfactory references accompany your order: if this is not done, there will necessarily be delay while we look up your credit.

All accounts will be due on the fifteenth of the month following shipment, and if not paid by that time will be subject to sight draft without notice.

We do not allow cash discounts

Goods will be sent C. O. D. if a remittance sufficient to pay express charges both ways accompanies the order.

If 25 per cent, of the bill is remitted with the order, the goods will be forwarded by freight, and draft for the balance, with bill of lading attached thereto, will be sent to any designated bank, so that the goods can be delivered at destination on payment of draft.

Payment may be made by Draft, Post Office or Express Money Order, or Registered Letter: we will not be responsible for remittances lost in transit.

Prices.

All former prices are hereby annulled.

All prices are subject to change without notice.

Boxing, cartage and postage will be charged at cost.

We will cheerfully and promptly answer all inquiries for prices and discounts. In writing us for quotations kindly refer to the page of our catalogue on which the articles are described, and state the quantity desired.

Shipments.

We request our customers to give us shipping directions with their orders, but in their absence we will use our best judgment in making selections of routes. As we employ experienced packers, we cannot be responsible for breakage after having obtained "in good order" receipts from a transportation company. All claims for breakage and damage should be made to the carriers.

Goods ordered to be shipped by mail will only be sent at purchaser's risk of loss or damage.

Telegraph Code. 20



USTOMERS are requested to make use of our code words as far as possible in ordering goods, requesting quotations or requesting information relative to shipment of orders, by telegraph, as it saves considerable expense, making it possible to send a long message for the price of a short one, and experience has also shown that it reduces the liability to errors. By a little ingenuity in arranging such

a message, from thirty to fifty words can be transmitted for the price of a ten word message. Telegraph inquiries received by us in code will be replied to in the same manner, not otherwise. We give below a number of code words, representing business phrases and sentences which are to be used in connection with code words given on the following pages:

CODE IN GENERAL:

Lapwing Answer by small.

Larboard Referring to our letter of.

Larch We write you fully to-day.

Larganas We have no letter from you.

Larganas Will write you fully in a day or so.

Larda Will write you fully in a day or so.

Larda Answer by telegraph—day message.

Laryan Referring to our telegram of.

Lancar Referring to our telegram of.

Lancar Referring to your telegram of.

Lancar Telegraph immediately.

Lasting Referring to you not telegraph?

Lasting Why do you not telegraph?

Latin Will your

Latin Will your

Latin Will your

Latin Will you accept?

Latinass Wire at once if accepted or not.

CODE IN GENERAL-(Continued):

Latent	Will greatly accommodate us if you
Latently	will. According to contract.
Lateral	Not according to contract.
Lather	To which add the cost of.
Lathered	In addition to.
Lathering	How did you address?
Latin	Was addressed to.
Latinize	Please note an advance of.
Latitude	Would you advise?
Latterally	Would advise you to.
Latterly	Would not advise you to.
Lattice	Unless otherwise advised will assume
	that,
Laud	Will you agree to?
Laudable	Will agree to.
Laudahly	Must have answer by.
Laudation	Will be in.
Laudative	Will be here.

CODE IN GENERAL-(Continued): CODE IN GENERAL-(Continued): Langh Utmost care must be used. Leek Shall we deliver goods on verbal order Cash on delivery. Cash in 80 days Advisable for you to place order at Leakage once, prices tending to an advance. Will not allow any commission. Commission will be allowed. Your financial standing being un-ORDERS: known, we will send goods C. O. D. Add to our order of, Loaking unless otherwise instructed, Leeky Cancel our order of. Launched Kindly send us references as to your Loan Loaned Change our order of. financial standing, or shall we ship Hurry forward goods on our order of. via freight with draft attached to Have you shipped goods on our order? bill of lading? If not, when will you? Will you agree to the conditions? Enter order if you can ship in. Contract awarded. Hold for instructions our order of. Contract will be awarded. If you cannot ship in time named ad-Will you extend credit? vise by telegraph. Have you decided? Learn Learned Learning Instructions by mail. Leve Have not decided. Prepay freight. Lavation Have decided. Shipping instructions will be sent you. Levelory Will guarantee delivery by the. Lease Ship immediately. Cannot guarantee delivery before the Ship as soon as possible. Lawfully Lawfulness The diameter is. Ship by express. Will do the best we possibly can. Ship by fast freight. Do the best you possibly can. Lawgiver Leash Leaves Ship quickest route: Lawylving Shall we do so? Ship cheapest route. Do so. Bend tracer immediately for shipment Can do nothing until. of. What have you done about? Leavening Wait receipt of letter before proceeding Will deposit sight draft on you to-day, with order. unless advised to the contrary, for Change order for. Lecture dollars. Lectured Send C. O. D. by express. Lexistive Please accept our draft for..... Lecturing What quantity can you ship per day? dollars Ledge Do not delay. Lexity Send duplicate copy of invoice dated. Looward Duplicate our order. Laxacco Have examined very carefully and find. Can you furnish? Levense Expenses to be paid by. Hold subject to our order. Lazily Do not fail to. Hold until further orders. Lezine Have figured as close as possible. Logalize Logaliy Logate Send us immediately. Lazy Freight must be prepaid. This is very important. Freight rate per hundred pounds to Send tracer on shipment-goods not destination. bere. London What is freight rate per hundred pounds? OUESTIONS: Leader Guarantee the account, Logatos Leading Hold subject to your order. At what price could you furnish? Logation Logani Does not include. Quote us by telegraph. Must be included. Quote us by next mail. Quote lowest price by telegraph, F. O. B. New York. Will keep you fully informed. Insist upon.

Logging

Quote lowest prices by mail, F. O. B.

New York.

Await instructions.

Letter in transit with full particulars

Parrione-(Orné	inuel):	Amewers—(Contin	med):
Lagible	Telegraph lowest price, F. O. B. New York, and how soon can ship.	Lengthoned	Can begin shipping at once, and com- plete in
Legibly	Can you ship immediately?	Longthoning	Can ship within one week from receipt
Legica	Can you ship in?		of order if advised at once.
Legislate Legislated	Have you in stock? Have you in stock? If not, how soon	Longithity	Can ship within two weeks from re- ceipt of order if advised at once.
	can ship?	Lealency	Have none in stock.
Legislating	How soon can you ship?	Loniont	First shipment will be made.
Legislative	How soon can you make first shipment,	Lent	Have entered order and will ship.
•	and how fast remainder?	Loonard	Have sent tracer as requested.
Legislator	What substitution can you make?	Localmo	Have suspended work as requested.
		Loosera	Too late to cancel order.
		Loopard	Unable to ship goods at time promised.
NEWERS:		Loopele	We ship you to-day.
		Loper	We expect to ship.
Legislature	Please specify quantities and trade	Laprocy	We will complete your order.
	number.	Laprous	We will ship.
Legitimato	Unable to give better price.	Lesson	We have shipped.
Legitimedelÿ	We quote.	Leccond	We have completed your order and
Legitimiet	We quote for immediate acceptance.		shipped same.
Legiona	We quote in reply to your inquiry of.	Lessoning	We have entered order.
Leleare Lateuraty	We quote shipment from stock. We quote shipment in.	Lethergy	Telegraph shipping instructions for your order of.
Leming	We cannot accept at the price.	Lettros	Can deliver part of your order at once.
Lence	We will accept your order.		Shall we ship portion or hold till we
Lamonado	We do not make the article.		can make one complete shipment?
Lander	Can ship at once from stock, if advised immediately.	Lovant	Do not understand your order. Send duplicate with full details.
Leading	Can ship at once on receipt of order.	Lovelness	Send us official order confirming your
Longition	Can ship in.		telegram.



SWITCHES.



Nos. 800 and 807.



Nos. 808 to 818.



Nos. 808 to 888.

Paiste Single Pole Switch.

			N	letal	Top.					
Code Word.	List No.								14	at Price.
Mange	802	5	Amperes,	each					 	\$0.25
Manger	827	10	-	0					 	.60
Radeliff	20001	5	**	with	grooved	base	each		 	.25
Rago	20002	10	100	-16	-44	-	in	-	 	-60

Paiste Single Pole China Switch.

Five Amperes.

		The state of the s	
Mangle	803	White, each	ė
Mangled	804	Ivory, "	Ł
Mangler	805	Black, " ,80	ı
Mangling	806	"Roman Gold" Flaked, each	ı
Mango	807	Band Gold, each 1.00	į
Mangroce	808	Red, each	ı
Manhoud	809	Blue, "	ı
Maniac	810	Oak, "	•
Manifest	811	Antique Oak, each	ı
Manifested	812	Mahogany, "	i
Manipulate	813	Walnut, "	ř

Paiste Single Pole China Switch.

Ten Amperes.

Mankind	828	White, each
Manlinese	829	Ivory, "
Manly	830	Black, "
Manna	831	"Roman Gold " Flaked, each 1.40
Mannerism		Band Gold, each
Mannerly	833	Red, each 1.12
Manning	834	Blue, " 1.12
Manor	835	Oak, " 1.12
Manaion	836	Antique Oak, each 1.12
Mantle	837	Mahogsny, each 1.12
Mantled	838	Walnut, each [.12



Nos. 917 and 918.



N- 000



No. 845.



The "Bryant" S. P. Switch.

Apter Aptituted	Birt No. 917 918	Capacity,	15 25	Amperes,					
Raleigh	999	16	15			grooved			1.00
Robiton	1000		25	-	**	*	*	*	1.20

Double Pole Ratchet Switch.

Marquie Marquie		Amperes,		Ratchet		

Ratchet Double Pole China Switch.

Ten Amperes.

Memorias	845	White, each.
Memory	1845	Ivory "
Menace		Roman Gold, each.
Mend.		Band " "
Mender		Red, each
Monding		Blue, "
Menial		Oak, "
Mental		Antique Oak, each
Mentally		Mahogany, "
Mention		Walnut, "
Mentioned		Black "

"P. & S." Single Pole Switch.

This Switch is all china. The china cover operates the Switch, and there is no key or handle projecting. It is small and very nest in appearance. It has an absolutely quick double make and break, with rubbing contacts, and has an exceedingly long break.

				4 100 20	
Matine	33	75	Amperes,	all china, each	.25
Mattron	334			decorated china, each	.45
Matrix	24	10		all china, each	.35
Mairimony	341	10	16	decorated china, each	.55
Matron	35	5	95	flush, all chins, "	.25
Matronhood	354	- 8	191	" decorated china, eich	.45
Mutted	36	10	100	" all chins, each	.35
Matter	361	10	**	" decorated chine, each	.55



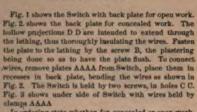
Fig. L



"P. & S." All China Switches.

		3- may Single Pole.		
Code Word.	List No.		List Pri	į
Roughing	No. 135,	3-Way S. P. Switch, all white, each	\$.	Į
Rnoflun	No. 1354,	3-Way S. P. Switch, decorated, each		į

Double Pole Switch.



In ordering state whether for concealed or open work.



"P. & S. Two-Circuit Switch.

This is a modification of No. 134 Switch, which makes it possible to control two circuits by the one switch in such a maneer that either a part or all of the lamps may be used as desired by the operator. In ordering state whether for concealed or open work.



Lazyman's Switch.

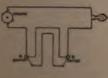


Diagram.

It is often convenient in residences, as well as in halls and stairways, to be able to light or extinguish a lamp from two points. This can be done as shown in cut. By reference to the diagram of the circuit, it will be seen that at either of the points A or B, the light or cluster of lights controlled by the switch can be turned on or off regardless of the position of the other switch.

In ordering state whether for concealed or open work.



No. 9378.



No. 0379.



No. 814



No. 815.



No. 904

Edison Flush Pocket Switches.

Code Word	List No.									Price.
Ringwood	9378	Flush	Pocket	Switch,	10	Amp.	13	Switch		1.76
Rio	9379	- 64	-	-8	10	-	п			3.00
Ripley	9380	4	164	**	10	- 4	3	4.	*****	4 50
Ripon	9381	100	-0		10	4	ă.		row	6.00
Ripleyville	9382	10	141	*	10		п		2 rows	6.00
Ritchie	9383	10	- 0	- 44	10	W	8			8 50
Rivervide	9384	-46	146	-	10		8			11.00

Paiste Three Point Switches.

Metal Top.

	814	5 Amperes	each	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.60
Countess	839	10 "			.80

Paiste Three Point China Switch.

g Amperes.

Marred	815	Cream White, each
Marriage	816	White, each
Married	817	Ivory, "
Marring	818	Black, "
Marrow	819	"Roman Gold " Flaked, each
Marry	820	Band Gold, each
Marrying	821	Red, each
Mare	822	Blue, "
Marshal	823	Ouk, ench
Marchaled	824	Antique Oak, each
Marshaling	825	Mahogany, each
Marshy	826	Walnut, each

to Amperes.

Marlyr	904	White, each
Martyrdom		Ivory, ""
Marvel		Black, " I.
Marrelous	907	"Roman Gold " Flaked, each 2.
Musculine	908	Band Gold, esch 2.
Mask	909	Red, each I.
Mashed		Blue, " I.
Mashing	911	Oak, " Li
Minshy	912	Antique Oak, each Li
Mask		Mahogany, each I.
Masked	914	Walnut, each It is a second of the land of the l



No. 65097.

Edison Snap Switches.

These Switches have been designed to break circuits having a potential of not over 125 volts. Flush Pocket Switches of special designs will be furnished on special orders, to suit the finish of the room.



Enema	65097	10 Amperes, D. P., for interior conduit, each	.85
Enlay	67419	Single Pole Ratchet Switch, capacity 5 amperes,	
		plain, each	.50
Entwine	67420	Single Pole Ratchet Switch, capacity 5 cmperes,	
		polished, each	.40
Entwined	67421	Single Pole Ratchet Switch, capacity 10 amperes,	
		plain, each	.70
Entwining	67422	Single Pole Ratchet Switch, capacity 10 amperes,	
		polished, each	.60
Entwined	67421	polished, each	.7



65095 10 Amperes, D. P., polished, cach.... 85 Rojeura 65096 10 " " nickeled. " .85"
65100 25 " " polished. " .140
65102 25 " " nickeled. " .146
65120 50 " " polished. " .185
65122 50 " " nickeled. " .185 Epidemical 65100 23 Epigram Equal Equaling



No. 57568.

57568 10 Amperes, D. P., flush pocket, each 1.25 Equality





No. 8249.

Hart 10 Ampere Three-Way Switch.

This Switch is used for controlling lights from either one of two points. A Four-way Switch is used in connection with two Three-way Switches for controlling lights from three or more points. Diameter of Base, 2½ inches. Diameter of Cover, 2 inches. Height, to Base of Handle, 1½ inches. Total Height, 1½ inches. Total Break from one set of contacts, before making contact with the succeeding set 1 inch. Binding. Posts for Wise to No. 8 B. 2.5 set, inch. Binding Posts for Wire to No. 6 B. & S.

Code Word.	List No.		* 200	250	List Price.
Exeruciate Exculpated	8247	Polished Brass			
ween banks	0240	T OHOUGH DINGS		*****	140

Hart 10 Ampere Four-Way Switch.

Diameter of Base, 2½ inches. Diameter of Cover, 2 inches. Height, to Base of Handle, 1½ inches. Total Height, 1½ inches.

Counting Country

8249 8250	With	Nickel I Polished	Plated Braze	Cover,	each.	 	 	 1.35

Hart Flush Plates.

The Flush Plates are made of solid plate brass 16 inch thick instead of being formed up of thin sheet metal as formerly. No screws show on the surface of the face plate, either in the single or gang plates. Single flush plates are made for all sizes of Hart Switches. Gang plates are made for any number of switches. The stock pates are made for any number of switches. The stock sizes are for two, three, four, six and eight switches. Five and ten ampere switches may be put on the same gang plate. Prices and dimensions of 15 and 30 ampere gang plates will be furnished upon application. The standard finishes are nickel, bronze and polished brass. We can furnish the plates in any finish, or to match any house hardware from sample of same.

Self-Adjusting Handle.

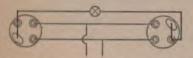
The collar has a vertical inovement with reference to the body of the handle of 1-16 inch, and is held downward by a flat spring which it encloses and conceals. This spring pressed collar holds the face-plate firmly against the wall with an easy, clastic pressure. The range of movement of the collar compessates, for all variations liable to occur in the distance from the face of the plate to the porcelain base of the switch. This adjustment makes oil handles, switches and face plates Interchange-able. This adjustment is especially advantageous in gang plates. This adjustable handle is furnished with all Hart Standard and Flush Switches. Standard and Flush Switches.



ONE SWITCH

och. Width, 24 inch. Opening required for Switch, 24 inch. diameter. Leagth, 34 inch.

8209 " bronze, each	9403		broam, each	1.20
---------------------	------	--	-------------	------



The method of connection for Three-Point Switches is shown in the above diagram.



To control lights from three points or more the Hart 4-Point Switch is used. The above diagram shows the method of making connection.



Hart Flush Plates-(Continued).

No. 1 A Flush Plate.

Length, 41 inch. Width, 31 inch

Code Word	Link No.					List Price.
Mastered	8211	Plate only,	nickel, each	error x		\$1.50
Mostering	8212		bronze, each.	41	40.0	1.50
Masterless	8213		brass, each	-	-	1.50

No. 1 B Flush Plate.

ONE SWITCH

This Plate is adapted for use with interior conduit branch boxes, and the Switches for use with same are our regular Switches, but with special porcelain basis, one and fifteen-sixteenths inches in diameter. The Switch is attached to a cast plate as with the standard Plates, and this Plate is clamped to the conduit box, and has an adjustment of one-sixteenth inch to allow for a variation in the setting of the box.

Diameter of Plate, 27 inch

	8214	Plate only	, nickel, each	 -			 	1.20
t.	8215	+1	bronze, each		 		 	1.20
	8216	**	brass, each					1.20

No. 1 C Lock Flush Plate.

ONE SWITCH

Length, 3ξ inch. Width, 2ξ inch. Opening required, 2ξ buch, diameter. One filat steel key is furnished with each Plate.

8217	Plate only,	nickel, each	1.50
8218	**	bronze, each	1.50
8219		brass, each	1.50

No. 2 Flush Plate

Two Switches

Length, 2½ inch. Width, 3½ inch. Opening required, 4½ x 2½ inch.

These Plates can be furnished to special order with one Lock and one Handle Switch, the Lock Switch being connected in series with and controlling the use of the Handle Switch.

Masonry	8220	Plate only,	nickel, each	2.40
Masquerade	B221	10	bronze, each	2.40
Mass	8222	22	brass, each	2.40



No. 8211



No. 9117.



No. 8220



Hart Flush Plates - (Continued).

No. 3 Flush Plate.

THREE SWITCHES.

		_				
	Lengt		Width,	34 inch.	Opening rec	uired,
Code Word.	List No.					List Pri
Massacre	8223	Plate only.	nickel,	each		3
Massacred	8224					
Massics	8225	••	brass,	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	3

No. 4 Flush Plate.

FOUR SWITCHES.

	Lengt	h, 64 inch.	Width,	₼ luch.	Ор	enin	g red	qui	red,
Exhaust		Plate only,	nickel,	each		. 	<i>.</i> .		.
Exhausted	8227		bronze	, "	
Bahayeter	8228	**		· · ·					



No. 6 Flush Plate.

SIX SWITCHES.

	Leng	th, 98 inch	. Width,	8å inch.	Opening	required,	
	78 x 42	inch.					
Ezh ai	8229	Plate on	y, nickel, e	ach	• • • • • • • • •		5.70
Ezhalement	8230	**	bronze.	"	. 		5.70
Exha ling	8231	••	brass,	"	• • • • • • • •		5.70

No. 8 Flush Plate.

EIGHT SWITCHES.

læng 10 x 44	th, 12 inch. inch	Width, 6	inch.	Openi	ng req	uire	d,	
8232	Plate only,	nickel, e	ach					6.6
8233	••	bronze,	**					6.0
8234	••	bruss.						



9

Rzhalent Ezhalation Ezhale

Paiste Flush Switch.

	Single pole, 10 an Three point, 10	peres, each	
With	nickel face plates.	Special finishes to order.	



No. 2219.

Perkins Flush Switch.

Diameter of base, 2½ inches. Length of plate, 3½ inches. Width, 2½ inches.
Flush Switches Noz. 13 and 61 are supplied with composition handles, which is the only handle that can be used with No. 61, but the double pole Switches will be furnished with metal handles if desired.
This Switch is made in three or four point, with or without flush plates.

Code Word.	List No.				List Price.
Manuscript	2219	No.52, 1	0 Amperes	D. P., flush, each	\$2 25
Мар	2220	" 53, 10) [*] "	" with key, cach	2.50
Maple	2221	" 61, 10		single pole, each	
•	For 22	0 volts; w	ill take wi	re up to No. 7 B. & S.	



No. 241 to 246.

C-S Flush Double Push Switch.

			4
Discerning	241	10 Ampere, Single Pole, Double Break, Nickel Face, each	₹ 2.0ò
Discerningly	242	10 Ampere, Single Pole, Double Break, Brass	2.00
Discharged	245	15 Ampere, Double Pole, Double Break, Nickel Face, each	2.50
Discharging	246	15 Ampere, Double Pole, Double Break, Brass Face, each	2.50



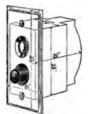
No 241 to 246.

FACE PLATES IN COLORS OTHER THAN POLISHED BRASS AND NICKEL.

Silver, Silver Oxidized, Silver Mottled, Bronze,	
Bronze Oxidized, Copper Oxidized, extra	
beyond polished brass or nickel	
Bower Barfe	
Gold	
Other colors or specially designed face plates, special.	
Unless otherwise specified, nickel will be sent.	



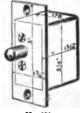
No. 247 to 250.



No. 247 to 250.



No. 251.



No. 251.

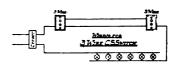
C-S Flush Commutation Switch.

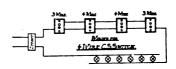
Code Word	List No.								1.6	a Prim.
Dischurch	247	5	Ampere,	Four	Wire,	Nickel	Face.	caci		
Dischurched			4.							
Disciple	248	10	••	Three	• ••	Nickel	••	**		2.50
Discipline	250	10	••	••	••	Brass	••	**	•••••	2.50

FACE PLATES IN COLORS OTHER THAN POLISHED BRASS AND NICESL.

•		_		
Silver, Si	ver Oxidiz	ed, Silve	Mottled, E	tronze,
Bronze	Oxidized,	Copper	Oxidized,	extra
beyond	polished br	ass or nic	kel	
Bower Be	∡fe		· · · · · · · · · · · · · · ·	
Gold		• · · · · · · · · ·		

Other colors or specially designed face plates, special. Unless otherwise specified, nickel will be sent.





C-S Flush Automatic Switch.

STRICTLY AUTOMATIC.—Opening door turns on the light; closing door shuts off light. Obviates necessity of placing Switch on outside of a dark room. Adapted also to be set underneath striker-plate of door-lock, so that unlocking door from outside turns on light, while locking it from outside turns it off.

EFFICIENT BURGLAR ALARM.—Intruder confronted by a bright light immediately upon opening a door.

Disclose

251 5 Ampere, Single Pole, Brass Face, each...... 2.80



No. 254 to 258.



No. 254 to 258.



Disciplis

No. 259 and 260.



No. 259 and 260,

C-S Flush Key Switch.

Code Word.	List No.	List	Prios.
Discolor	254	15 Ampere, Double Pole, Double Break, Nickel Face, each	2.50
Discomfort	255	15 Ampere, Double Pole, Double Break, Brass Face, each	2.50
Discomfortable	256	10 Ampere, Three Wire, Double Break, Nickel Face, each	2.50
Discomforted	257	10 Ampere, Three Wire, Double Break, Brass Face, each	2.50
Discomfortin	258	Keys, per dozen	1.25

ned	259	10 Ampere, Single Pole, Double Break, Nickel	
		Face, each	2.00
4	260	10 Ampere, Single Pole, Double Break, Brass	
		Face, each	2.00
ner	261	Keys, per dozen	1,25

PACE PLATES IN COLORS OTHER THAN POLISHED BRASS OR NICKEL

Silver, Silver Osidized, Silver Mottled, Bronze, Bronze Osidized, Bronze Mottled, extra beyond polished brass or nickel, cach Bower Barfe	.25 .50
Other colors or specially prepared face plates, special. In ordering, state particularly the kind of box wanted, whether with or without luga.	./5



Size of Gang Face Plate, Four Switches.



No. 262.



No. 20114.

No. 263.



No., 20115.



Iron Wall Box, Pour Switches.

C-S Flush Switch Accessories.

GANG FACE PLAYES FOR DOUBLE PURE SWITCH.

A comparison between the cut of plate for a single Switch and that of gang face plate for four Switches will show that by using the gang plate a saving of wall space of about 1 ½ x 3½ is effected, besides presenting a better appearance than by placing four face plates side by side. In like manner, the gang face-plate for six Switches saves à wall space of 9 ½ x 3½.

For Switches complete, in gange, up to aix Switches in gang, without iron boxes, same price as for same number singly.

Beyond 6 Switches in gang, special.

Wooden Mat.

The Wooden Mat is furnished singly or in gangs to order, in any wood desired. It offers a convenient device for concealing the broken edges of the plastering made in cutting away for the switch body

Code Word.

Discommend

Mats beyond 6 switches, special.

Iron Wall Box.

The Iron Wall Box is intended to be put in while the building is in process of construction. The edge of the box comes flush with the plastering. Furnished singly or in gangs of 2, 3, 4, 5 and 6.

Discommode

Robinst

20114 For 1 Switch.....

Hole in top and bottom of box is arranged for reception of two g or g inch brans, iron, or circular loom condults.

Box fitted with nipples for either # or # inch iron con duit, or, if preferred, tapped for either size tube. In ordering styles "Robe" and "Robinet" state particularly What size or fitting of combuit is required.

Dimensions of Iron Wall Boxes.

No. Switches.	Length.		Breadth.		Depth.
1	274	x	3,4	8	36
2	25	2	8/4	- 12	112
78	58	×	854	X	133
4	76	-	8/4	X	144
ā	9/4		20/4	x	124
	11	E	346	X	44

Lock Switches.



No. BEER

Perkins Lock Switch.

List No.								List Price,
2222	No.	40,	10	Amperes.	double	pole,	each	 \$3.75
2223	46	41,	15		44:	-11	16	 4.50

For 220 Volts.

Nos. 40 and 41 are especially adapted for use where it is desirable that only authorized persons should have access to the Switch, for which purpose a spring lock fastens the flush plate to the cast iron box containing the Switch, and no one unprovided with a specially designed key can either remove the plate or turn the Switch

This pattern has been found to be very desirable in image saylums and similar institutions.



Bryant Chandelier Switch.

947	5 Ampere, complete with 6-foot Chain and Ring.	
	each	1.5
	Extra Brass Chain, per foot	.0
	Extra Beass Rings	.0

This Chandelier Switch is intended to be placed in the canopy of the chandelier, and is fitted with a clamping attachment on the back which clamps around the pipe, and is held in place by a set screw. Is rated at ten amperes. The chain can be dropped down between the pipe and the shell of the chandelier, or through a small hole in the canopy outside of the chandelier. It is fitted with brass ring hanging below the chandelier, the first pull of which lights the entire chandelier, the next pull cutting it off.

Chain and ring can be furnished to special fluish where

desired to match any finish of fixture.



Anchor Switches.

Single Pole.

Code Word.	List No.				- 4	d Trees
Rockland	20066	5	Amperes, S.]	P	tests was an expense	\$.27
Rock ricer	20067	10	4 4		 	-33
Rock side	20068	10				
	22222					





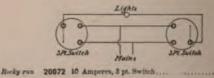
No. 20069.

Double Pole.

Rock springs	20069	10	Ampères,	D. 1	P		 	-63
Rockton	20070	20	-	100	TOTAL	*****	 	1.00
Rockville	20071	30	**	*	44	444	 	1.25

Three Point.

Three point 8 witches are used to control lights from either one of two points. The method of connection is shown herewith.

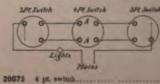




No. 2007a.

Four Point.

To control lights from three or more points, two 3 pt. switches are used at two of the points, and a 4 pt. switch at each additional point up to any desired number. The method of connection is shown below.



Rock pie

No. 20074.



Anchor Switches.

Key Switch.

Code Word	List No.													List Print
Rod	20074	5	Amperes	, S. P.,	Ke	y				 	 			 \$ -63
Rodary	20075	10												.69
Rud rurner	20076	10	- 16	3 pt.	44					 	 	.,	u	
Rud point	20077	10	**	4 "	14	44			-	 			ű,	
Rut place	20078	10	144	S P.,	900	vol	t, 1	Re	y .	 			ĕ	 1.62
Rud town	20079	10	- 44	D. P.,	Ke	у.			**	 	 			 .99
Buttale	20080	20	14	44.	44									
Roddy	20081	30	- 14	-44	44			20			ø.	.,	 k	 1.62



No. 20082 20083.

Anchor Square Switchblock.

Of great convenience in leading in wires to switch, in moulded or cleat work.

	Fits 5, 10 Amp. S. P., 10 Amp., D. P	.12
20083	Fits 20 and 30 Amp., D. P	-14

Anchor Push Button Switches.

These Switches are made in "ganga" to order. Switches are finished regularly in nickel.

Special finishes, copper, silver, bronzes, etc., also to imitate onyx, pearl, etc., to order.

 20084
 20 Amperes, D. P.
 2.50

 20085
 20
 a. S. P.
 2.00

 20086
 20
 a. 3 pt.
 2.50

 20087
 20
 a. 4 pt.
 4.00



Cast Iron Pockets for Anchor Switches.

Rod will	20089	Pocket for	1	Switch			y,		ä				.,	×			
Rod pund	20090		2			÷		ŵ	i				Ġ		.,		k
Hod gan	20091	14.	3	44		ū		į,									
Rod city	20092		4			ŝ											
Rod farm	20093	16	5	. 44		î		ú									
Rod house	20094		13	-													
Rod barn	20095		8	16													





Anchor Flush Plates.

The following prices are for plates only. To obtain the net price of the plate and switches complete, add the net price of the plate to the net price of such switches as are desired.

	-30
Special finish, bronze, copper, etc., each plate	
Enamel imitating marble, onyx, pearl, etc., each	.00
plate extra each	.00

The Anchor Flush Plates are made, except the single switch, of solid plates, one-eighth inch thick, which finish with a smooth surface. The bandle is so designed as to be practically flush. A spring beneath the handle makes the plate absolutely

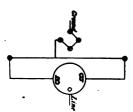
A spring beneath the handle makes the plate absolutely rigid.

Note the feature of the removable shell; by simply loosening one screw the shell may be removed for wiring. The standard fulsh is nickel. We can furnish the plates in any finish, or to match any house hardware, from sample, at slight extra cost, also enameled to match early sample, at slight extra cost, also enameled to match early narries from sample, at slight extra cost, also enameled to match early narries from sample, at slight extra cost, also enameled to match look from face on wall, the switch itself being recessed in the wall. The depth of recess required is given in table below. In the multiple plates any or all of the switches may be "lock" and of any size given below.

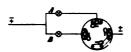
We make to order plates of any desired size other than given, and for any number of awliches.

In ordering use catalogue number of plate and specify the size of switch. When special finish is required send a sample with order.

Code Word	No.					witches a plate.	Stre Plate.	Length	Depth Recess.	Length	List Price.
lbur	20096	5 and 10	amp., 8	P.		1	38x 3	2/4	2/4	19	.60
Rouring	20097	*	46.			2	22x 5		42	Till	2.10
Roaring Creek	20098	16	65			3	32× 7		69	181	3.30
Rob	20099	1 14	ax.			4	54x 5		44	18	4.20
Roberts	20100	16	66			- 6	54× 7	48	68	10	5.40
Roberta Creek	20101	M	66	10		8	52×10	44	84	14	6.75
Robin	20102	3 pt, 4 pt	and 10	amp	, D. P.	1	39x 3	24	28	12	.60
Robinson	20103			**	-	2	22x 6	24	42	-12	2.10
Hobinsdid	20104	**	**	48	**	3	BEE BI	28	74	18	3.30
Rock	20105			*	-0.	4	64x 6	42	42	12	4.20
Rockbridge	20106		-	H	44	8	64x 8	42	74	18	5.40
Rock Oresk	20107	- 10	- AV	10	. #	8	GixII	48	91	19	6.75
Ruck Cut	20108	20 and 30	done 0	D. F	Missie	1	48x 4	1 31	34	18	1.00
Rockdate	20109		-	100		2	42× 75	34	65	10	2.25
Rock Elin	20110	-	44	14		3	ARXII.	34	94	18	3.50
Rock Falls	20111		- AA	18	******	4	72× 71	40	04	18	4.75
Rock Field	20112	-	181	-	ALLIES	15	TRALL.	CE	94	18	5.00
Rock Hill	20113	-		4			72×111	CE .	122	14	7.25



ctions for Two Circuit Switch.

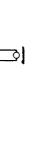


sections for No. 9 and Dimmer Switch.



No. 20016

Bal



لَۍ

Hart Two Circuit Switch, to Ampe This Switch is especially designed for lights in electric street cars, where there are four lights inside the car and one at each end outside. The four lights inside, and one "end" light, are turned "on" and "off" successively, by the first half revolution of the switch handle. The second half revolution of the handle turns "on" and "off" the ladds light and the handle for the handle turns "on" and "off" the inside lights and the other "end" light.

Special Switches.

Hart No. 9 Switch, 10 Ampere.

The first quarter turn of the handle lights a portion of the lampi on an electroller; the second quarter turn lights the balance of the lamps. The third quarter turn puts out those last lighted, and the fourth quarter turn puts out those first lighted.

Hart Dimmer Switch.

This switch is used with two lamps in series, for "night lights." The first quarter turn connects the lamps in series, giving a dim light. The second quarter turn short-circuits one of the lamps, allowing the other to burn to full candle power. The third quarter turn connects them again in series, and the fourth quarter turn opens the circuit. the circuit,

The price of above switches is the same as the net price of the 10 Ampere D. P. Hart Switch.

Head-Light Switch.

3 Point, 3 Amperes, 500 Volts, Double Break.

This switch will break the circuit, no additional switch being required for that purpose.

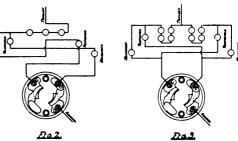
The Head-Light Switch is used in street cars when it

The Head-Light Switch is used in street cars when it is desired to put in circuit with the interior lights either one of the head-lights. The method of connection is shown in Figure 1. It can also be used to put in circuit with the interior lights, either head-light and the vestibule light at other end of car.

Figure 2 shows the connections for 3 interior lights, first head-light and the vestibule light at other end of car.

front head-light and rear vestibule light.

Figure 3 shows connections for 8 interior lights, front head-light and rear vestibule light.





Single Pole showing Cap re



Three-Way showing Cap re-





Diagram of Connections.

New York Flush Switch.

(PATENTED.)

Operated with a single button, rated with a single button. Alternate pushes turn lights of Single and Double Pole Switches have indicating dials as or on. Single

abown in cut.

The working parts are entirely of metal and cast welded glass.

Cast welded glass is the best known insulator for a purpose of this kind and will not absorb a particle of moisture, even if it should become cracked or chipped.

			Each.
Acarpous 253	399 Single	Pole	\$1.70
		Poleteers processores tress	
Arntalactic 25	101 Three	Way terres	2.00

Stock switches finished with nickel plated face plates. Special finishes furnished on abort notice.

Heat Regulating Switch.

15 Amperes, 300 Volts, Ouadruple Break.

The handle upon being turned from left to right, raises by means of a screw thread cut thereon, a nut loose in the insulating block, which is then carried forward, as soon as released from a lock in the base, with great rapidity, and after a quarter revolution drops again into a lock,

drops signin into a lock.

The parts revolve in one direction only.

The loose contact plus, allow automatic adjustment between the points, so that when "made," contact is assured with every point by the pressure of strong spring copper brushes upon one end of the pin, forcing the other against the adjoining contact plates.

When in contact, the insulating block is free to move slightly in any direction, and can not possibly bind the contact plus.

The four simultaneous breaks of the circuit cach time the switch is turned from one position to the next reduces the spark.

The four simultaneous breaks of the circuit each time the switch is turned from one position to the next reduces the sparking to a minimum.

The Heat Regulating Switch is used for the regulation of heat by different combinations of the heaters.

On the commutator are four raised bosses or dials on which are printed "OFF," "I," "2," "3," respectively. These dials appear successively before a hole in the cover, and thus indicate the posi-

tion of contacts in commutator.

From the "off" position, as indicated by dial, the first quarter turn connects in circuit the heaters No. I, and figure I appears on dial.

The second turn throws out of circuit heaters No. I and con-

The second turn throws out of circuit besses 8.0.1 km connects in circuit heaters No.2, and figure 2 appears on disl.

Heaters No. 2 being of greater capacity than No.1, a larger amount of best is generated.

The third turn connects heaters No.1 and No.2 in parallel, which gives the maximum amount of heat, and figure 2 appears



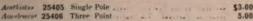
The H L Switch.

This switch is specially adapted for use in connection This switch is specially adapted for use in connection with a door for automatically throwing incandescent lamps in and out of circuit. It is circular in form, allowing it to be mounted in the casement of a door or in the wall with very little trouble—it being only necessary to bore a hole the size of the switch shell. It is made either as a single pole double break switch or a 3-point switch. It is mechanically strong and has a long, quick break. It may be used on 110 or 22) volt circuits. It will break three simperes at 220 volts and 5 amperes at 110 volts. It carrying capacity at any voltage less than.

will break three amperes at 220 volts and 5 amperes at 110 volts. Its carrying capacity at any voltage less than, 110 volts als rated at 5 amperes.

When the door is opened the push projects forward, actuated by a spring. This movement turns the lights on. The closing of the door simply sets the switch in position ready to turn off the lights as soon as the door is opened again but while the door remains closed the lights continue to burn. When the door is opened the second time the lights are turned off.

This switch is designed specially for bathrooms, telephone booths and vaults, where the person entering the room desires to turn on the lights and at the same time close the door and upon leaving the room desires the lights to be turned off automatically. This switch may also be used for lighting long halfways where light the lights to be turned off automatically. This switch may also be used for lighting long hallways where light is wanted only while a person is passing through the half, a switch of the 3-point description being placed in each door, when the door at one end of the half is opened the lights are turned on and the opening of the door at the other end turns them off



Door and Closet Switches.

The object of these Switches is to furnish a device that will automatically throw on or off the incandescent lights

will automatically throw on or off the incandescent lights as desired.

The door switch has one end arranged to take the place of that part of the lock which is fastened in the door jamb and into which the boit of the lock fits when the door is locked. The boit of the lock presses upon a projection of the switch which throws off the lights when the boit is withdrawn from the jamb. By unlock the door the projection of the switch is released and the lights are turned on.

This same principle is used in the closet switch, excepting that the projection which operates the mechanism of the switch extends about one-fourth inch beyond the flush surface of the switch.

The switch is placed in the jamb of the door to which

The switch is placed in the jamb of the door to which the hinges of the door are fastened. When the door, is closed it depresses the projection so that it becomes flash with the door jamb and this turns off the lights. The opening of the door releases the switch and the and the lamps are turned on.



25071	Door Switch,	each	1.25
25072	Closet Switch		1.25









Baby Knife Unmounted Switches.

NOTE.-Prices on Unmounted Switches do not include crews.

Screws of any size and length furnished at cost.

For Tablet Board Work. Type A.

Code Word	List No.							I PYIOL
tting	20053	15	Amp	, S. P. S. T.,	Unmounted,	each	Create 5	-30
Ringle	20054	15	N.	D. P. S. T.	*	*		.50
Ric	20055	15	Th-	8. P. D. T.,	40		-1- 541	.50
Hio Breck	20056	15	At	D. P. D. T.	48	16.		.70
Riples	20057	15	16	3 Wire, 8. T	100	4		.80
Ripo	20058	25	24	S. P. S. T.	**	**		.35
Rising	20059	25	M	D. P. S. T.	-10	44		.60
Ritrock	20060	25	-	S. P. D. T.	44	-6	****	.70
Riserdans	20061	25	86.	D. P. D. T.		60		.90
Riverfalla	20062	25	44	3 Wire, S. T.	**	- 14		1.00
Acapella	25397	15		3 Wire, D. T.				1.00
Acaridan	25398	25		3 Wire, D. T.		H	-	1.20
		-						

Type "B" Unmounted Knife Switches.

Code Word.	List No.	B.E.	No.						L	Print.
Abstendinusty	25328	1103	15	amp.	double	pole, sin	Kle	throw		\$0.32
Absterniousness	25329	1152	15			do	ible	throw		.50
Abstention	25330	1075	25		48	ala	glo	throw.		.36
Abstergent	25331	1153	25		*	do	ble	throw		.60

Type "C" Unmounted Knife Switches.

				Sir	igle	Break.	
	Absternion	25332	1160	35	ii TO	p., S. P., single throw	.60
	Abutervice	25333	THE	35	14	" double throw	.70
	Abstinence	25334	1162	35	18	" single throw, fusible	.70
	Hierhead	20063	1059	35	18	D. P., single throw	.90
	Ricervi	20064	1060	35	15.	" single throw, fmible	1.30
	Ricerstation	20065	1061	35	-	* double throw	1.30
	Abstinency	25335	1154	35	*	Three P., single throw.	1.50
	Abstinent	25336	1155	35	44	" double throw	1.80
	Abstinently	25337	1156	35	34	P single throw, funible	1.80
	Abstorted	25338	1157	35	-	" double throw, funthe	2.00
	Absteneted	25339	1205	DO	-10-	S. P., single throw	.80
	Abstractodly	25340	1206	50	-	double throw	1.20
	Matractedors	25341	1207	50	-11	- single throw, funible	1.20
	Alutrartina	25342	1225	50	211	" double throw, familie	1.40
	Abstractor	25343	1208	70	-11	D. P., single throw	1.20
۱	.lbstructone	25344	1209	20	-40	" double throw	1.80
ı	Abdractitions	25345	1210	50	-	* single throw, funible	1.50
	districtive	25346	1220	50.	-	" double throw, fuaible	2.20
	Abstracticaly	25347	1211	30	100	Three P_single throw	2.40
	Mutraetty	25348	1212	50	46	* double throw	3.60
	Abstractues	25349	1213	50	M	" single throw, fusible	3.60
	Abstricted	25350	1135	.00	100	- double throw, fugible,	4.00

Type "E" Double Break Knife Switches.

Unmounted.



No. 25355.

Code Work	List No	B, E. Co	No							Lin	Price.
Abstringe	25351	1214	50	amp	. S. 1	P., sing	gle i	hrow			1.00
Abstrade	25352	1215	50	0	*	don	ble t	brow		24	1.70
Abstranty	25353	1216	50	44.	-46	sing	de ti	row.	fusible		1.70
Ahatruseness	25354	1223	50		41	dou	ble t	hrow	famible.		2.00
Abstrusion	25355	1217	50	44	D. F	alug	de ti	frow.			1.50
Abstracty	25356	1218	50	- 14	- 140	dou	ble t	hrow			2.30
Absume	25357	1210	50	-	48	sing	tle th	row.	fasible		2.30
Absumption	25358	1224	50	(AC	40	dou	ble t	hrow	fasible		3.00
Absurdness	25359	1220	50	40 5	Three	P., alt	ngle	thro	W		3.00
Abuna	25360		50	44	- 0				******		4.30
Abundunt	25361	1222	50	40	.0.	sing	le th	row.	fusible		4.30
Abundantly	25362	1126	50	Oge.	1,80				fusible		4.50



Type "A" Baby Knife Switches.

Single Throw.-Porcelain Base.

Richhill	20040	1001	15	-mperes,	S. P. S.	T.	Celevil.	\$	-30
Richford	20041	974	15		D. P. S.	T		 2000	.50
Richland	20042	1052	15		3 Wire.				-80
Richwand	20043	977	25		S. P. S.				-36
Richview	20044	978	25		D.P.S				.60
Rickmond	20045	979	.25	- 55	3 Wire.	8.	T	 	1.00

Ridge Ridgerend Ridgerend Ridgeren

Slate Base.



Type "B" Baby Knife Switches.

Single Throw.--Porcelain Base.

Abungul	25365	1102	15 amperes,	D. P. S. T	Tarana and the last of the las	135
Almar	25366	1074	25 "	16.7		-40











Type "C" Single Break Knife Switches.

		Sing	le P	ole, SI	nte Base		
CodeWord. Lis	st No. B. I	E. No.					List Pros.
Abunion	25367	1147	35 a	mpere	, S. P. S	T.	
Abunicely	25368	1187	50		*		1.00
Abuniveness	25369	1148	35	16	S. P. D	T	1.10
Abutter	25370	1188	53	10	-16		
Abrolate	25371	1149	55	- 44	S. P. S.		
Abcolation	25372	1189	50	4	S. P. S.	T	1.60
		Doub	le Po	ole, SI	ate Base		
Ridgeville	20050	1043	35 a	mpere	. P.P. 8	T	1.00
.164	25373	1190	50				
Riley	20052	1044	35	44	D. P. S.	T. for fuse	1.50
Abyamal	25374	1192	50		-	* 1545	1.90
Ridgesony	20051	1045	35	44	D. P. D	T	1.50
Abymantt	25375	1191	50	-			
		The	ee P	ole, S	late Bas	0.	
Abyminian	25376	1099	35 4	mpere	s, three p	ole, S. T	1.50
Ameian	25377	1193	50	*		M Annahir	
Arndeme	25378	1101	35	46		D. T	2.25
Academial	25279	1194	50	44	180	*	20.00
Academian	25380	1100	35	**	-	for fuse, S.	
Arademir	25381	1195	50	4		- 8	
	Abusion Abusicely Abusiceness Acustome Acustome Acustome Acustomia Acust	Abusion 25367 Abusicely 25368 Abusiveness 25368 Abusiveness 25370 Abutler 25370 Abcolation 25372 Ridgeville 20050 Aby 25373 Ridge 20052 Abymail 25374 Ridgesiny 20054 Abymail 25375 Abyminian 25376 Abpointum 25377 Ancion 25377 Aractone 25378 Accudemia 25378 Accudemia 25378 Accudemia 25378 Accudemia 25378	CodeWord List No. B. E. No.	CodeWard. List No. B. E. No. Abussion 25367 1147 35 a Abussicaly 25368 1187 50 Abussicaly 25368 1187 50 Abussicaly 25370 1188 50 Abussical 25371 1189 50 Abcolation 25372 1189 50 Abcolation 25372 1189 50 Ridgecille 20050 1043 35 a Abussical 25373 1190 50 Ridgecille 20052 1044 35 Abyssanit 25374 1192 50 Ridgecing 20051 1045 35 Abyssanit 25375 1191 50 Three P Abyssanitan 25376 1099 35 a Anction 25376 1103 35 a Academia 25378 1101 35 Academia 25378 25	ColeWard List No. B. E. No. Abusion 25367 1147 35 ampere Abusicely 25368 1187 50 1188 50 25368 1187 50 25368 1187 50 25368 1187 50 25370 1188 50 25371 1149 55 25371 1149 55 25371 1149 55 25371 1149 50 25372 1189 50 25373 1190 50 25373 1190 50 25373 1190 50 25373 1190 50 25374 1192 50 25374 1192 50 25376 1045 35 25376 1047 35 25376 1048 35 30 25376 1049 35 30 25376 1049 35 30 25376 1049 35 30 25376 1049 35 30 25376 1049 35 30 25376 1049 35 30 25376 1049 35 30 25376 1049 35 35 35 35 35 35 35 3	CodeWard. List No. B. E. No.	Abusion 25367 1147 35 amperes, S. P. S. T

Type "D" Knife Switches.

			Single Break.	
Academical	25382	1184	50 amperes, double pole, single throw, with black enameled base.	1.40
Academician	25383	1185	50 amperes, double pole, single throw, with white glazed base	1.40
			Double Break.	
Acudemiam	25384	1236	50 amperes, double pole, single throw, with black enameled base	2.00
Aradenciat	25365	1237	50 amperes, double pole, single throw, with white glazed base	2.00
Irmilia	25386	1238	35 amperes, double pole, single throw, with black coameled base.	1.50
Acateplik	2537.7	1230	35 amperes, double pole, single throw, with white glazed base	1.50

Type "E" Double Break Knife Switches.

				Slate B	ase,		
Aralepha	25388	1190	50	amperes,	double	pole, single throw	1.50
Aralophan	25389	1200	30	- 89	-	double throw	2.30
Arntralmid _	25390	1201	50			single throw, fusible	2.30
Aralyrian	25391	1200	50	amperes.	three 4	pole, single throw	3.00
Aralgeinma	25392	1203	-50	9		double throw	4.30
Arnathri	25393	1204	50	- 15		single throw, fusible	4.30
.bunthier	25394	1199	50	amperes,	single	pole, single three	1.00
Jonathine	25395	1107	50		-	donote throw.	1.70
Irrathian	25396	1198	20	- 10		single throw, fusible	1.70



The Western Electric Knife Switch.

Type E .- For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.

These switches are all rolled tempered copper, and the greatest care in design and construction has been used in order to obtain a switch that would carry its rated capacity in amperes without showing any heating of its parts. In placing and fastening the jaws in position they are not soldered but bolted to the metal plates or lugs. By this method the temper of the jaws is in no way injured, and they will always grasp the blade of the switch with an equal and unvarying contact which will not deteriorate with time.

The hinge contact is made in the same way and the bolt which passes through the hinge is provided with a lock nut, preventing any liability of loosening or poor contact at this point. The blades are of drawn copper, hand fluished.

The base is extended for connections on back of board

The base is extended for connections on back of board and is secured in place by a lock nut. Swivel connections are provided which will admit of the circuit wires being brought into the switch from any direction.

Norg.—These Switches are all made to gauge and any repair part can be obtained and a damaged part replaced in a few moments. These Switches are litted for switch board work immounted. If desired they will be furnished mounted upon slate bases with front connections, at an advance of 90 for core over the writer of those with back advance of 20 per cent. over the price of those with back connections unmounted. Special prices quoted on Type E Switch, for 500, 1000

and 2000 volts.



No. 2020

			24	agic i	ate.	Single	Intow.		
Code Word.	List No.					-			List Frice.
Rotate	20282	E	11	up to	50	Ampere	capacity		. 5.60
Rotated	20283	E	21	- 44	70	-	**		. 6.30
Rototeplane	20284	E	31	46	150		- 44	*********	. 8.10
Ruturypump	20285	E	41	26	300	86	14		. 11.90
Rotation	20286	E	51	**	450	*	14		. 14.40
Rototics	20287	E	61	*	600	841	84		20.70
Rotator	20288	E	71	*	800	**	**	Colonia leni	. 26.30
Rote	20289	E	81	24	1200	**	44		43.10
Rotgut	20290	E	91	-	2000		44		63.40
				100			-		
			Sin	gle P	ole.	Double	Ihrow.		

Rotherboasts	20291	E	12	up to	50	Ampere	capacity		6.70
Rothernall	20292		22	-	75			*******	7.70
Rutheroust	20293	E	32	H	150	16	**:	* * * *	10.10
Rutifer	20294	E	42		300	**	**		14.70
Ratiform	20295	E	52	4	450	*	14		19.50
Rotten	20296	E	62	4	600	*	A		26.30
Rottenly	20297	E	72	12	800	16	4		34.70
Rottenness	20298	E	82	- 14	1200	H			57.00
Rottenstona	20299	E	1/2		2000		100	Shaner	84.00

The Western Electric Knife Switch.

(Continued.)

Type E.-For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.

Double Pole, Single Throw.



So 2000.

List Price. Each. 7.80 Code Word List No Rotuler. 20301 Hotund ********* E 33 150 12.90 Rodunda Redundity 20303 20304 E 43 E 53 300 ----25.70 34.70 450 Retundo Rannana Ranble 20305 E 63 600 E 73 E 83 20306 800 " 1200 79-40 Ranche 16 Rone 20308 E 93 2000

Double Pole, Double Throw.

Roart	20309	E 14	up to	50	Ampere	capacity	 10-10
Ringe	20310	E 24	·u	75			 12.10
Rough	20311	E 34	*	150		44	 17.00
Rougheast	20312	E 44	4	300	4		 24.30
Roughenster		E 54	4	450	44	**	 34.00
Roughdraw		E 64	**	600			 45.80
Roughen	20315	E 74	••	800	*	4	 62.00
Roughfooted		E 84	**	1200		*	 107.20
Roughhered		E 94		9,000	4	4	 161.40
•							

Three Pole, Single Throw.

Roughheirer ?				up to			capacity		٠.	•	٠.	• •	• •	• •	
Roughhearn ?	20319	E 2	25	*	75	**	*		٠.		٠.				17.20
	20320	E 3	35	**	150	**	•	٠.			٠.		٠.		19.80
	20321	E 4	lõ	**	300	**	44							٠.	29.30
Roughlegged		E 5		*	450				٠.			٠.		٠.	41.40
	20323	E 6	:5	*	600	u	4	٠.	٠.						54.30
	20324	E 7	75	4	HUU	**	4								71.80
	20325	E	5	**	1900	**									118-30
	20326	Ε¥	ĸ,	**	2000		u			•	٠.				182.60

111100 1010, 202010 11110

Econuk skiri	2032/	E 10 1		•				
Roughstring			·u	75	**	4		21.80
Rought	20329	E 36	**	150	44			28.40
Ronghwork	29330	E 16	••	300	44	**		38.20
Rouk		E 56	**	450	4	4		54.60
Ronlade	20332	E 66	**	600	"	**		71.50
Roulean	20333	E 76	••	8UI)	**			
Roolette	20334	E 86	•	1200			,	158-80
Roun	20335	E 96	44	2 000		•		243.30

Western Electric Quick Break Knife Switch. Type Q.—For 220 Volts.

BACK CONNECTIONS, UNMOUNTED, FOR SWITCHBOARDS.

The Type Q is a Quick Break Knife Switch with essentially the same features as Type E, with the addition of the Quick Break Spring. This Switch is especially approved by the Underwriters for an entrance or service switch for motor work, constant potential are or incandescent lighting as well as for switchboard work. The Switch is listed, with the exception of one size, with back connections unmounted. The Q Switch mounted with front connections on slate will be furnished at an advance of 20 per cent. over the price of the unmounted switches.



Code Word-	Lint N	ů.							List Price.
Hounce	20336	Q	23	up to	75	Ampere	capacity		11.40
Rounceout	20337	Q	33	**	150	14		*********	. 15.60
Round	20338	Q	43		300	441	-16		. 22.60
Roundabout	20339	Q	53	**	450	4	14		. 31.50
Roundback	20340	Q	63	44	600	46.	46		45.20
Roundel	20341	Q	73		800	- 46	-		- 68.00

Three Pole, Single Throw.

Roundelay	20342	Q 25	up to	78	Ampere	capacity	*******	17.20
Rounder	20343	Q.35	**	150	44.			23.10
Roundhead	30344	Q 45	44.	200	-44	- 10.		33.00
Roundhouse	20345	Q 55	44	450		-	**********	47.40
Rounding	20346	Q 65	46.	1000		.66		67.90
Roundleh	20347	Q 75	- 16	800	-	**	minimum.	98.10

Two, Pole, Single Throw, 220 Volts.

Roundly 20348 Q 03 up to 25 Ampere capacity, unmounted Roundly 20349 Q 03 " 25 " " mounted	Roundlet Roundly	20348 20349	Q 03 up to Q 03 "	25 Ampere 25 "	capacity,	unmounted	2.90
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Two Pole, Single Throw, 500 Volts.

Roundridge 20351 Q 03 = 25 " mounted 3-	Roundridge Roundridge	20350	Q 03	ip to	25 25	Ampere	capacity,	mounted	3.4
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No. 20095.



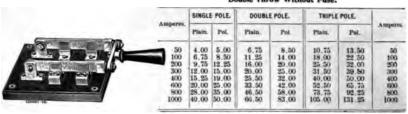
No. 20349.



No. 30851.

L. & S. Knife Switches.

Double Throw Without Fuse.



Double Throw With Fuse.

	SINGL	E POLE.	DOUBLE	POLE.	TRIPLE	POLE.		
Amperes	Ploin.	Pol.	Plain.	Pol.	Plain.	Pol.	Amperes	
50	5.00	6.25	8.50	10.75	13.50	17.00	50	
200	8.50	10.75	20.00	17.50 25.00	22,50 32,00	28,25 40,00	100	
300	15.00	18.75	25.00	31.25	39,50	49.50	300	
600	25.00	23.75	32,00 42,00	40,00 52,50	65.75	62.50 82.25	400 600	
800	35.00	43.75	58.00	72.56	92.25	115.25	800	
1000	50.00	62.50	83,00	103.75	131.25	164.00	1:00	

500-volt switches, except D. T. Fused, add 20 per cent. 500-volt switches, Double Throw Fused, add 40 per cent.

Single Throw Without Fuse.

	SINGL	E POLE.	DOUBLE	POLE.	TRIPLE	POLE.	Amnama	
Amperes	Plain.	Pol.	Plain.	Pol.	Plain.	Pol.	Amperes	
50	3.00	3.75	5.00	6 50	8.00	10.00	50	
100	5.00	6.25	8.50	10.50	13.50	17.00	100	
200	7.25	9.00	12,00	15.00	19.00	23.75	200	
300	9.00	11.25	15,00	18.75	23,50	29.50	300	
400	11.50	14.50	19.00	23.75	30.00	37.50	400	
600	15.00	18.75	25,00	31.25	39.50	49.50	600	
600	21.00	26.25	35.00	43.75	55.25	69.00	800	
1000	30.00	37.50	50.00	62:50	78.75	98.50	1000	

Single Throw With Fuse.

		E POLE	DOUBLE	POLE.	TRIPLE	POLE			
Amperes.	Plain.	Pol.	Plain	Pot.	Plain	Pri	Ampere		
50	3.75	4.75	6.25	8.00	10.00	12,50	50		
200	9.00	7.75	10.50	13.00	27 73	21.25	200		
300	11.25	14.00	18.75	23,50	29 50	37.00	300		
400	18.75	18:00 23:50	23,75 31,25	29.75 39.00	37.50 49.50	62.00	400 600		
990	26.25	32.75	43.75	54.75	69.00	86.25	800		
1000	37,50	47.00	62.50	78,00	98,50	123,00	1000		

Front connected switches unmounted deduct 10 per cent. Back connected switches unmounted same as list. Back connected switches mounted add 10 per cent.

Style "H" Station Switches for Back Connections.

In this Switch the arm is made sectional as the illustration shows. The blade is of hard drawn copper, securely held in the slotted tube by the end plugs and bushings.

From 25 to 1000 Amperes.

WITH FUSE TERMINALS.

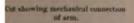
PRICE LIST.

WITHOUT FUSE TERMINALS.



Style "H" Station Switch for Back Connections.

100					Polished.	Plain	Polished.	Plain.
45	Marka I	lo Lo	Sharks T	Timinte	4 9 60	8 2,35	\$ 2:20	\$ 2.00
25 25 25		Ole	, Single T	Brow,	\$ 2.60	3,60	3.20	\$ 2.00
20	Single	H	Double	**	4.00			2.85
20	Double	*	Single	4	4.75	4.25 7.65	3.80	3.40
20	Double	-	Double		8.50		6.80	6.10
25	Triple		Single		6.00	5.40	4.80	4.30
25	Triple	14	Double	14	10.70	9.60	8.50	7.65
10	Single	- M	Single	H	5.50	5.00	4.40	4.00
50.	Single	-	Double	м	8.50	7.65	6.80	6.10
20	Double	AL	Single	- 11	10.00	9.00	8.00	7.20
50	Double	14	Double	34	18.00	16.20	14.40	12.00
.50	Triple	H	Single	-14	12,70	11.40	10.00	9.00
50	Triple	14	Double	34	12.70 22.50	19.25	18.00	16,20
75	Single	14	Single	166	7.10	6.40	5.60	5.00
75	Single	14.	Double	36	11.00	9.90	8,80	7.90
75 75	Double	- 64	Single	*	13,00	11.70	10.40	9.35
.75	Double	14	Double	16	23.40	21.00	18.70	16.80
75	Triple	#	Single	- 24	16.50	14.80	13.20	11.85
75	Triple	46	Double	H	29.00	26,00	25,20	22.65
100	Single	*	Single	**	8 95	7.40	6.60	6,00
100	Single	44	Double	16	12,75	11.45	10,40	9.39
100	Double	*	Single	**	15.00	13.50	12.00	10,80
100	Double	- 16	Double	46	27,00	24.30	21,00	19.40
100	Triple	*	Single	36	19,00	17.00	15.20	13.50
100		- 66		**	113 75	30.30	27.00	
150	Triple	-	Double	**	9.00	8.00	7.20	6.50
150	Single	H	Single	#	14.00			
	Single	2	Double	16		12.60	11.20	10.00
150	Double	-	Single	0	16.50	14.80	13.20	11.80
150	Double	H	Double	H	29,70	20,70	25.75	23.00
150	Triple		Single		20.90	17.80	16.75	15.00
150	Triple	*	Double	36	37,00	33.30	29.60	26.50
200	Slugle		Single		11.00	9,90	8,80	8.00
200	Single	18	Double	66	17.00	15,30	13.00	12.25
200	Double	*	Single	H	20,00	18.00	16.00	14.40
200	Double	44	Double	-M	36,20	32.50	28,90	26.00
200	Triple	1	Single	- 14	25.30	22.75	20.25	18.00
200	Triple	-	Double	16	54.00	48,60	43.20	38,80
300	Single	H	Single	A	15.40	13,80	12.30	11.00
300	Single	As.	Double	H	23,80	21,40	19.00	17,00
300	Double	м	Single	H	28.00	25:20	22.40	20.00
300	Double	64	Double	86	50.00	45.00	40.00	36,00
300	Triple	54	Single	34	35.50	82.00	28.40	25.50
300	Triple	14	Double	24:	63.00	36,70	50.40	45.30
400	Single	96,	Single	14	18.70	16.80	15.00	13.50
400	Single	#4	Double	AL.	28.90	26,00	23,10	20,50
400	Double	- 54	Single	14	34,00	30,60	27.20	24.40
400	Double	146	Double	94	61.20	55.00	48.90	44.00
400	Triple	- 84	Single	M	43,00	38.70	34.40	30.80
400	Triple	86	Double	**	80.00	72.00	64.00	57.60
600	Slogle	-94	Single	92	25,30	22.75	20.20	18.00
600	Single	24	Double	-14	39.00	35,00	31.20	28.00
7000	Double	-	Single	16	40,00	41.40	36,80	33,00
600	Double	- 44	Double	**	82.00	78.80	65.60	59.00
700	Triple	16	Single	16	68.30	61,50	54.60	49.00
600	Triple	- Ac	Double	16	18.00	88.20	78.40	70.50
1000	Single	-	Single	16	40,00	36,00	32,00	28,80
1000	Single	-	Double		63.00	56,70	50.00	45.00
1000	Double	- 66	Single	316	74.00	66,60	59,20	53,25
1000	Double	14	Double	14	132.00	118,00	105.60	105.00
1000	Triple	RK.	Single	11	93.00	83.00	74.40	67.00
1000	Triple	4	Double		166.00	150.00	132.00	118.00
		_			The state of the s			-
The	Se bylone	B.PO.	for parts	PROMETE	ed on slate	Esten e	harge for	machla



se prices are for parts mount

Style "H" Station Switches for Front Connections.

WITH FUSE TERMINALS.

From 25 to 1000 Amperes.

7910E 1300



Style "H" Station Switch for Front Connections.

- In							7 4400	
Amperes			4		Polished.	Plain,	Polished.	Plais.
25	Single F	ole	Single T	hrow,	\$ 2.75	\$ 2.50	8 2,30	\$ 2.10
25	Single	14	Double	**	4.20	3.80	3,35	3.00
25	Double	41	Single	44	5.00	4.45	4.00	3.60
25	Double	**	Double	44	8.90	8.00	7.15	6.45
25	Triple	16	Single	84	6,30	5,65	5.00	4.50
25	Triple	**	Double	No.	11,20	10.00	8,80	8.00
50	Single	66	Single	- 11	5.75	5,25	4.60	4.10
50	Single	.00	Double	44	8,90	8.00	7.20	6.50
50	Double	916	Single	26	10,50	9.50	8.40	7.50
50	Double	58	Double	5.0	19.00	17.00	15,20	13,20
50	Triple	**	Single	56	13,30	12.00	10.60	9.50
50	Triple	44	Double	44	23.50	20.00	18,80	17.00
75	Single	- 84	Single	66	7.40	6,75	5.90	5.30
75	Single	**	Double	**	11.50	10.20	9.20	8,25
75	Double		Single		13.60	12,25	10,50	9.50
73	Double	48	Double	44	24.60	22,00	19.60	17.75
73	Triple	100	Single	-0.	17,50	15.50	14.00	12,60
70	Triple	14	Double	44	30,50	27.30	24.40	99,00
100	Single	*	Single	w	8.45	7.75	6.75	6.10
100	Single	-44	Double	146	13.40	12.00	10.72	9.70
100	Double	n	Single	.0.	15.75	14.25	12.60	11,40
100	Double	- 64	Double		28,23	25,50	22.60	20,40
100	Triple	10	Single	"	20.00	17.85	16.00	14.40
100	Triple	-64	Double	-68	34.25	31.80	27.40	24.70
150	Single		Single	· A·	9.50	8.40	7.65	6,90
150	Single	:44	Double	84	14.75	13.25	11.80	10.70
150	Double	**	Single		17.30	15,50	13.80	12.50
150	Double	**	Double	48	31,20	28.00	23.00	22.50
150	Triple	-64	Single	-0.	22.00	19.75	17.60	15.90
150	Triple	14	Double	14	38,85	35,00	31,00	28,00
200	Single		Single	44	11.50	10,40	9,20	* 8,30
200	Single	160	Double	164	17,80	16,00	14,00	12.60
20.10	Double	10.	Single		21.00	19,00	16.80	15.20
2(1)	Double	**	Double	14	38.00	35,20	30_00	27,00
2(1)	Triple	44	Single	.0	26.00	24.00	21.25	19,00
2(1)	Triple	**	Double	44	56,50	50,00	45.00	40.00
300	Single	-64	Single	- 0	16.20	14.60	13.00	11,70
300	Single	No.	Double	44	25.00	22,50	20.00	18.00
300	Double	44	Slugle		29.40	26.50	23.50	21.00
300	Double	44	Double	-	52,50	47.25	42,00	37.75
3(X)	Triple	49	Single	44	37,25	33.50	29.80	27,00
300	Triple		Double	14	66,50	63,20	53,00	48.00
400	Single	14	Single		19,60	17.60	15.75	14.25
400	Single		Double	44	30.25	27.00	24.20	21.80
400	Double	14	Single	14	35.70	32.20	28.50	26.00
400	Double		Double	84	64,00	57,00	51,00	46,00
400	Triple	-	Fingle	48	45.00	40.00	36.40	32.80
400	Triple	44	Double	84	84,00	75,00	67,00	60.00
600	Single	14	Single	ě.	26,50	23,10	21.25	19.00
400	Single	4	Double	Ex.	40.80	36,50	32,50	29,25
600	Double	-8	Single	44	48,30	43,50	38.50	34.00
600	Double	44	Double	64	86,00	78,00	68.75	61.50
600	Triple	14	Single		71.25	64.00	57.00	51,50
600	Triple	84	Double	44	105 00.	92,00	80,00	72,00
1000	Single	45	Single	, MA	42.00	37.20	33.00	30,00



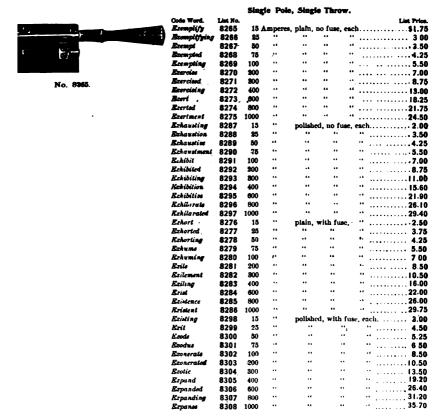
Cut showing mechanical connection of arm.

hese prices are for parts mounted on slate. Extra charge for marble

4.00

4.75 5.75

Station Switches.



8308 1000

8000 1008

8003 100 ٠.

75



Single Pole, Double Throw.

Expertorate	8004	200		•	••	••	9.50
Expedient	8005	800		••	4.4	••	12.00
Expedite	8006	400	••	••	••	••	
Ezekiel	8007	600	••	• •	**	**	
Bera	8008	800		••	••	••	35.00
Exertion	8009	1000	••	••	••	••	

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Station Switches—(Continued).

Single Pole, Double Throw.

		Sta	gio Poli	, Double	1 Blow	•	
Code Word.	List No.		_				Elet Prins
Encape	8020				l, no fuse	, cach.,	
Encaged	8 0 2 i	50		••	••		1.75
Encaging	8022	75		••	••		7.80 ,
Encamp	8023	100	**	••	••		4.76 :
Backain	8024	200	••	**	**		1 1 .00 `
Backained	8025	300	**	**	**	"	
Enchaining	8026	400	••	••	••	"	24.00
Backainment	8027	600	**	**	••	••	
Buchant	8028	800	**	••	**		42.00
Enchanted	8029	1000	**	••	••	**	48.00
Encounter	8010	35	••	plain, v	rith fuse,	each	4.78
Bacountering	1108	50		• ••	**	*	5.75
Encourage	8012	75		**	••		7.80
Encouraging		100		**	••		8.75
Racradia	8014	200			••		11.00
Kacrimon	8015	2000	••	**	••		14.50
Eneroach	8016	400		••	••		26.25
Rucroacher	8017	600			**		38.00
Enervaching	8018	800					\$2.78
Encroschmen		1000			••		48-25
Enchanting	8030	25		rediaha	d with f		5.50
Enchantment		30		point	.,		6.75
Knchase	8032	75		.,			8.25
		100			**		
Enchared	8033						13.00
Enchaving	8034	200	,		**		
Encircle	8035	800	, .				31-50
Encompass	8036	400	,			٠.	42.20
Encompresed		600	,			•	
Висотрания		800	,			•	
Kacore &	8039	1000		••	••	* .	

Made with back connections for ten per cent additional to list price

Double Pole, Single Throw.

Encumber	8040	15	Amperes.	plain,	no fuse,	Cuch.	• • • •	• • •		2.2
Encumbering	8041	25	••	**	••	٠٠.			.	5.7
Encumbrance	8042	50	•		••	٠.	. .	.	- · - •	7.00
Endomage	8043	75	•			•• .				8.75
Endanger	8044	100	••		••	•••				
Endear	8045	200	.,	••	••	••			٠	14.50
Endearing	8046	:000	.,	••	••	••	, .			18.00
Endrarment	8047	400		••	••	••			• • · •	29.00
Endenror	8048	600	**	••	••	٠٠.				39.2
Endeatoring	8049	HOO	••	••	••	•• .		٠,.	۰	45.7
Endless	8050	1000		••	••					 52.7
Endlessin	8062	15	••	polish	d, no fu	iur, ec	ich.			3.25
Emille same se	8063	25	**	•			••			7.0
Erdone	8064	50	••	••	••		"			. 8.2
Endower	8065	75		••			٠٠.			.,10.5
Endorer og	8066	100	••		••		" .	. .		13.50
Endorment	8067	200	••		••					17.5
Endurance	8068	300		••	**		٠.			24.80
Endure	8069	400	-		••		٠.	. .		34.80
Endured	8070	000		••	•		~ .			47.10
Buduring	807 L	800	**		-		۳.		. .	.,54.90
Endri m	8872	1000		•	• •		-			63-30

Station Switches-(Continued).



No. 8001.

Code Worst	List No.	Doub	le Pol	e, Single	Throw		List Price.
		20. 40	-	-	to bear	- A	
Enemy	8051			plain, w	na tune.		\$3.00
Energy	8052	25	**				7.25
Exertate	8053	50	1867	48	16	**	8.75
Eneronted	8054	75	-	100	111		11.00
Energating	8055	100	44	301	900	** 11111	14.25
Enercation	8056	200	**	514	WA-	**	17.50
Enfamish	8057	200	100	10	41	W	22.00
Enfectie	8058	400	131	3.0			34.25
Enfeebled	8059	600	-33	***	(22)	*	45.25
Enfeeblement	8060	800	**	**	**	W 12112	52.75
Enfetter	8061	1000	1.0	***	**	Warne.	60.00
Bugender	8073	15		polished	, with fo	ise, each	4.25
Engandered.	8074	25	11	11	0	** 42	8.75
Engendering	8075	50	41	11	91	** **	10.25
Engild	8076	75	11	**	**	146 (1)	12,75
Engineering	8077	100	-64	44	144	11	16,50
Enginery	8078	200	**	144	-10	11	22.00
Engird	8079	300	46	41	11		29.00
Knglish	8080	400	41	100	41	100	41.10
Engloom	8081	600	116	**	0.0	-33 21	54.30
Engorge	8082	800	-00	146	100		63.30
Engurged	8083	1000	-14		316	** **	72.00
	N	lade wit	h or w	ithout fus	e, as des	ired	

Three Pole, Single Throw.



No. 8124.

			ter Loie,	- ming				
Enormous	8124	15	Amperes,	plain,	no fule,	each		3.00
Enrage	8125	25	**	-01	- 10			8.25
Enraged	8126	50	- 44	20	86	94 -		10.50
Envank	8127	75	11	111	10			13.00
Euranked	8128	100	**	8.67	**	* 25	********	16.50
Ehranking	8129	200	**	10	**	** **		21.00
Enrapt	8130	300	-66	14	44	11 .		27.00
Enrich	8131	400	- 67	-M.	88.	41		45.50
Enriched	8132	600	- 44	111	100	40		60.25
Enrishing	8133	800	11	**	10	**		70.00
Enrichment	8134	1000	- 16	-64	44	44		80.75
Entisted	8146	15	1661	polish	ed, no fu	ae, euc	h	4.00
Entisting	8147	25	- 44	44		8.0		10.50
Enlistment	8148	50	14	21	31	**	NAME OF TAXABLE PARTY.	12.25
Entiuen	B149	75	11	9.0	93	111	1 1150	15.75
Kolfvened.	8150	100	++			74		20.00
Enlivening	8151	200	- 11	-	- 11	274		26.50
Enmon	8152	200	**	34	- 14	194		35.00
Enmity	8153	400	40	:54	70		Accounty	54.60
Ennoble	8154	600	- 11	- 55	100		*********	72.30
Knoch	8155	800	100	54	-	-11	*******	84.00
Enormity	8156	1000	10	174	- 11	198	******	96-90
Enkindle	8135	15	41	plain.	with fund	each.		3.75
Enkindled.	8136	25	14	Penny,	11	25		9.50
Enkindling	8137	80	100	100.1		69	0 1-0111-	13,25
Santauting	0107	,00			v.	140		16.00

Station Switches—(Continued).

Three Pole, Single Throw.

Code Word.	List No.					L	let Price.
Enjoin	8157	15	Amperes,	polished, v	rith fuse	, each	\$5.00
Enjoined	8158	25	**		••	·	13.25
Enjoining	8159	50		••	••	·	15.50
Enjoinment	8160	76		••	•	•	19.00
Enjoy	8161	100	.4	••		• • • • • • • • • • • • • • • • • • • •	24.25
Enjoyable	8162	200		••	••		33.00
Everting	8163	800	**	••	••	••	43.00
Enjoyed	8164	400	**	••		•	
Bajoging	8165	600		••	••		84.30
Enjoyment	8166	800	••	••			97.80
Erieil	8167	1000	**	••	••		111.00



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Enjell	r# 8167 1990 -						·· ····••	111.00		
		Dotable	Pole,	Double	Thro	₩.				
Enhance	8084	25 Am	peres,	plain, no	fuse.	cuch		7.75		
Enhanced	8085	50	••	••	••	••		9.50		
Enhancement	8086	. 75	••		••	••		11.75		
Enkancer	8087	100	••	••	••	••		14.75		
Enhancing	8088	200	••	••	••		· · · · · · · · · · · · · · · · · · ·	18.75		
Enharber	8089	800	••	••	••		· · · · • • · · · · · •	25.00		
Enharden	8090	400	••		••		· · · · · · · · · · · · · · · · · · ·	43.50		
Baigma	8091	600					· · · · · · · · · · · · · · · · · · ·	60.75		
Enigmalis	8092	800						71.75		
Enigmatin	8093	1000					· · · · · · · · · · · · · · · · · · ·	82.50		
Bagraving	8104	25		polished,	no fue	e, cac	:h	9.50		
Engross	8105	50	::				• • • • • • • • • • • •	11.00		
Engrowed	8106	75					••••••	14.00		
Engreesing	8107	100	••	••			••••••	17.50		
Engrocement	8108	300 30 0	••		••			23.50 32.60		
Enguard Bussel	8110	400						52.20		
Bugulf Bagulfod	8)11	600						72.90		
Engelfing	8112	800						86.10		
Enguifment	8113	1000	••				••••••			
Engorgement	8094	25		plain, w	ich for			10.50		
Engorging	8095	50		piere, w		4		13.00		
Engrail	8096	75	••		••	u	********	16.00		
Engrain	8097	100				"	••••••	19.50		
Engrained	8098	200	••			ee		25.50		
Engrappis	8099	800	••		••	u	• • • • • • •	33.00		
Engrave	8100	400			••			58.25		
Engraved	8101	600			••	••		74.25		
Bagraven	8102	800		••	••	••		87.25		
Engravement	8103	1000	••	••	••	••		98.50		
Baring	8114	25	••	polished,	with !	luse.	each	13.00		
Enrobe	8115	50	••	• ••	••		**	15.25		
Enrobing	8116	75	••	••	••		••	18.75		
Enroll	8117	100	•		••			23.50		
En rolled	8118	200	••	••	••		· · · · · · · · · · · · · · · · · · ·	31.00		
Enrollment	8119	800		••	••		•• •••••	42.00		
Encoot	8120	400	••		**		· · · · · · · · · · · · · · · · · · ·	86.30		
Barooled	8121	600	••	•	••		•	89.10		
Enresting	8122	800	••		••			164.70		
Breed	8123	1600	••	••	**		*	18.20		



Station Switches-(Continued).

		Three	Pole,	Double	Throw		
Code Word.	List No.						List Price.
Enshield	8168				o fasc, es		\$11.75
Enstrine	8169	50	10	.4	20 -0	I SANTELLIA	
Enshroud	8170	75	***	***	11. 4	0.840,000,000	
Ensign	8171	100	**	**	- 11		
Ensigney	8172	200	41	44	- 10	300000	
Enslove	8173	800	97	401	4		
Englaring	8174	400	Tax:		44 11	2 423333	
Engue	8175	000	44		W 1 2	2242000	
Ensuing	8176	800	-97	-99	44 V		110.00
Entall	8177	1000	- 11	40	20 11		128.25
Enticingly	8188	25	- 11	polished		each	
Entireness	8189	50	1.55	**	XX.	** ******	
Entitle	8190	75		146	44.	the states	
Entoil	8191	100	**		100	" 5000	
Entrance	8192	200	11	181	44	** *****	
Entranced	8193	300	10.	-61		"	
Entrop	8194	400	144	**	33	** *****	
Entroys	8195	600	**	-24	- 17		112.20
Entreated	8196	800		- 11	18	2	132.00
Entrenting	8197	1000	881	. "	**		154.00
Entailed	8178	25	. 11			ench	
Entailing	8179	30	**	**	"	** *******	
Entailment	8180	75	**	425	784-		
Entangle	1818	100	11.	**	11	** ******	
Entangled	8182	200	241	16.	-11		36 75
Entangling	8183	1000	44	10	110	-	
Entering	8184	400	**	**	0	** 1002100	
Enterprise	8185	600	7		**		123.25
Enterper	8186	800	**	44	-11		
Enterprising		1000	**	43	44		150.00
Entertain	8198	25	41		l, with fu	se, each	
Enthrone	8199	30	44	4.6	**		22.75
Eathroad	8200	75	3	- 40		1111	
Eathronemet		100	00	**	10		35.50
Enthroning	8202	200	**	-11	70		46.00
Euthuriann	8203	800	-11	**	- 11	"	60.00
Enthusiant	8204	400	-18	**			100.80
Entice	B205	600	141	**	- 25		157.90
Enticement	8206	800	0.0	"		1 1 to 1 to	159.30

Constructed on the same general principles as our other Station Switches; field open or closed by a positive springlock.



No. SEGR.

120

No. 2157.

Hill Switch.

Single Pale.

Encusing Execute Empired	8254 8255 8256	50 100 200	- 15		2.7 4.0 6.0
			Dos	ble	Pole,
Masouting	B257	25	Amperes,	each	h
Execution	8258	30	21		
Executioner	8259	100	**	**	
Manueline	9246	000	- 24	1.00	B.5



No. 8261.



No. 8251.



No. 8309.

Dynamo Switch.

With this Switch and simple bus bar connections a very neat and convenient switchboard for a good-sized isolated plant can be made at a very small expense.

Code Word.	List No.																L	int	Prio
Executive	8261	25	Amperes,	each	×				۰		ı	×	 ı	۰			v	.5	4.2
Erecutory	8262	50	- 11																6.5
Executress	8263	100	- 16	*	'n.			۰	ě	u			 ı	i					9.5
Exemplary	8264	200	**	20								i						ŧ	13.0

Elevator Switch.

Exemply 8251 3 Pole, 100 Amperes, each	
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Single Pole Blade Switches.

MOUNTED ON MARRIEIZED SLATE BARRS.

Wat 5-4-4- 5-4-4 W-44-

Mentor	8309	Capacity	in Ampere	s up	ta 25, plain,	eacl		.99
Mercenary	8311		46	-	25, polished	1 4	****	1.20
Merecr	8312	**	-	**	50, plain -	. 15		
Merchant	8314	44	*	- 16	50, polished	T.a.		-
Morellens	8316	- 16		**	100, plain	**		000
Mercury	8317	. 44	44.	4	100, polished	EH.		4.26
Rockmeny	20118	44		44	200, plaln	-	-	200
Ruekent	20119	AR	46.	44.	200, pollshed	1 44		
Marcy	8318	16	61	- 61	300, plain	*		5.46
Morge	8320	44	44	10	300, polished	M		6.54
Marged	8321	44	44	4	400, plalu	-	114	5.94
Meridian	8323	4		- 44	400, pollahed	1.46	5152	7.14
Merina	8324	44	44	4		14		8-58
Marited	8326		- 19	- 44	600, polished	7		10.29

Without Safety Catch Holders.

Meddler.	8327	Capacity in	Amperes	up	10 25,	plain	eac	b.c.
Meditute	8329	44	**	86	25,	pollabe		1-1-1
Rockrourt	20120	46	46	- 44	20,	plain	-01	
Rockcork	20121	- 44	4	**	50,	polishe	4 11	
Meditating.	8330	44.	167	44	100,	plain	-	
Medical	8332	×	15.	- A		polishe	d	****
Medicully	8333		46	-		plain	14	
Medicated	8335	40-	**	.66		polishe	d	
Milked	8336			16		plale	-	44. 44
Milkwaid	8318	16	16	-		polishe	4.0	
Milleman	8339			- 44		plain		-
Milling	8341	40	*	- 14		polishs	4.	wood
MILL	8342	44	46	- *		plain	м	7734
Millie	8344		183	18		pollshe	4 .	

Double Throw—Single, Double and Triple Pole

-(Continued).

Single Pole. - (Continued.)

Code Word. Rodent	List No. 20148	Capacity in	Amperes	up to	200.	plain e	•ach	7.86
Rodge	20149		-			polished		
Monkish	8517	4	•			plain		 8.61
Monopoly	8519	•	•	•	300,	polished	-	10.38
Monetony	8520	4	•	•	400,	plain	4	 9.36
Monthly	8522				400,	polished		11.25
Monument	8523		4	-	600.	plain		13.56
Messec	8525	•	•	4	GU,	polished	•	16.29

Double Pole.

Macaroni	8526	Capacity i	in Ampered	e, up t	ບ 25, plain,	each	2.70
Mace	8528	•	1	-	25, polish	rd " .	3.24
Macarate	8529	4		-	50, plain		. 6.24
Machinery	8531		4		50, polish	rd "	7.50
Machinist	8532	-	-	•	100, plain	-	9.36
Madam	8534	-	-	-	100, polish	ed "	11.25
Rodomel	20150	-	-		20), plain		12.24
Rocotone	20151	-	•		20, polish		14.73
Madens	8535	-			30, plain	-	14.25
Madman	8537	-	-		300, polish	e-1 =	17.10
Modness	8538	-	-		400, plain		16.20
Magazine	8540	-			400, polish	···1 -	19.44
Magget	8541	-			Will, plant		21.93
Magie	8543	-	-		60, polish	ed "	26.34

Triple Pole.

Magical	8544	Capacity in	Amperer	up t	o 25, plain	ener to	3.78
Magistrate	8546	-	4		25. polish	ed =	4.53
Magney	8547		-	-	D. plain	-	8.28
Magnifying	8549		-	-	M. polien	ed =	9.96
Magnitude	8550	-			100, plain	••	14.10
Magpie	8552	•	-	4	100, polish	e-15 to	16.92
Rogue	20152				20, plain		17.73
Rodgrahip	20153	-			Mit, polish	,j ··	21.30
Mahomdan	8553	-	-		30, plain		20.85
Maiden	8555	-	-		30, polist	rs!	25.05
Maidenly	8556	-	-		40), plain	.,	23.97
Maimed	8558	•			400, polish	-1 -	28.77
Maining	8559	-			600, plain	-	32.58
Mainsail	8561	•	-	-	600, polish	ed " .	39.09

Double and Triple Pole Blade Switches.

WITHOUT SAFETY CATCH HOLDERS.

			Double Po	le.			
Code Word.	List No					Lis	Price
Mirguided	8394	Capacity	in Amperes,	up t	o 25, plain, 🦽	nch	1.50
Miskap	8396	4		"	25, polished		1.86
M irjoin	8397	44		4	50, plain		3.66
Minjudged	8399	"		*	50, polished	٠	4.38
Miejvdging	8400	44	•	•	100, plain		5.49
Misload	8402		4	4	100, polished		6.60
Rockless	20130	4	16 1		200, plain	4	7.17
Rockling	20131	44	4	4	200, polished	4	8.6
M ioleader	8403	4	•	4	300, plain		8.34
Misplace	8405	•	4	u	300, polished	4	9.9
Misrule	8406	4	4		400, plain	4	9.4
Missina	8408		4	44	400, polished		11.3
Mission	8409	u		44	600, plain		12.84
Mist	8411	4	4	4	600, polished		15.42

Triple Pole.

Mistake	8412	Capacity in	Amperes	up te	25,	plain	each	 2.10
Mi=tletoe	8414		ü		25,	polished		 2.52
Mistreut	8415	4	4	4	50,	plain	44	 4.86
Mistrust	8417	4	u	4	50,	polished		 5.85
Misus	8418	•	•	•	100,	plain	4	 8.25
Miter	8420	•		**	100,	polished	۳ ا	 9.90
Rockmilk	20132	•		*	200,	plain	44	 10.38
Rockmon	20133		44	•	200,	polished		 12.45
Mitigate	8421				300,	plain	4	 12.21
Mittimus	8423	4	4	44		polished	4	 14.67
Mix	8424		•		400.	plaln		 14.04
Mixture	8426		u	4		polished	1 "	 11111
Moan	8427	4	**	-		plain	4	 19.14
M oaning	8429			*		polished	۳ ا	 22.98
								•



Nos. 8480 and 8486.

Double and Triple Pole.

WITH SAFETY CATCH HOLDERS.

Double Pole.

Rockoil	20134	Capacity is	Amperes	up to 800	, plain,	euch	23.2
Rockrone	20135		ù	· 800	polished	d "	27.8
Mont	8430	u	4		, plain		36.3
Mobbed	8432	4	4	4 12 00	, polishe	d =	43.0
Mobbing	8433		4		, plain		43.5
Moccanin	8435	4	*	~ 1800	, polishe	4 -	52.7

Double and Triple Pole—(Continued).

Triple Pole

			Triple Po	e.	
Code Word Rockplant	List No 20136	Capacity	in Amperes	up to 800, pla	List Price. in, each 35.57
Rockruby	20137			" 800, pol	shed " 42.70
Mock	8436			" 1200, pla	
Mocked	8438	•		" 1200, pol	
Mocking	8439	44	**	" 1800, pla	
Modeled	8441	•	•	" 1800, pol	ished " . 78.41

WITHOUT SAFETY CATCH HOLDERS.

Double Pole.

Rockwell	20138	Capacity in	Amperes	up to	800,	plain	each	 121.42
Rockshaft	20139	· ur	4	"	800,	polished	•	 26.37
Modeling	8442			**	1200,	plain	4	 \$3.59
Mordant	8444	4		4	1200,	polished	44	 40.33
Morning	8445	4		•	1800,	plain	4	 40.29
Morphology	8447	•		•	1800,	polished	4	 48 34

Triple Pole.

Rochahell	20140	Capacity in	Amperes,	up to	800,	plain,	each		32.90
Rocksonp	20141	"		*	800,	polished	1 "		39.47
Morsel	8448	"		4	1200,	plain	4		53.72
Mortality	8450	••		4	1200,	polished	1 "		64.48
Mortar	8451	4	**	44	1800,	plain	44	٠.	60.46
Mortgage	8453			*	1800,	polished	1 "	٠.	72.53

Double Throw-Single, Double and Triple Pole.

WITH SAFETY CATCH HOLDERS.

Single Pole.

	_ *	/
		7
A	7	le.
		all in

Nos 8454, 8478 and 8490.

				-				
Martify	8454	Capacity in	Amperes	up te	25,	plain	each	 1.77
Mortine	8456	**	"		25,	poli-hec	1	 2.13
Mosaic	8457	**	••	••	J/1,	plain	**	 5.28
Moslem	8459	**			50	polishes	۱	6.36
Mosey	8460		**	**	100,	plain	••	6.48
Motherly	8462	**		••	100,	poli-he-	۱ -	 7.80
Rocktor	20142	**		••	200,	plan	**	8.82
Rockwood	20143	**			20,	polishes	1	 10.56
Motion	8463	**			30.00	plain		 9.69
Motley	8465	••			,3x e),	pr lisher	۱	11.64
Mottled	8466		**		ton.	plain		10.56
Mound	8468				\$100	poli-he	i	 12.69
Mount	8469	**	**			plain		15.24
Mounting	8471					polished	1	18.30

Double Throw—Single, Double and Triple Pole -(Continued)

Double Pole.

Code Word	List No.							L	M Print	
Mourn.	8472	Capacity	in Amperes,	up to	25,	plain,	each		2.97	
Mournful	8474		- 44	54		polishe		100	3.57	
Mournfully	8475	- 46	44	-	50,	plulu	46		7.85	
Mouse	8477			*	50,	polishe	d "		8.46	
Mouth	8478	•	••		100.	plain	•		10.56	
Morable	8480	4			10U.	polishe	d "		12.00	
Rockwork	20144					pinin			13.77	
Rocky	20145	-				polishe	d "		16.53	
Movement	8481					plain			16-82	
Mortgaging	8483		44	4	300.	polishe			19.20	
Modern	8484	u	•			plain			16.21	
Modest	8486					polishe			21.84	
Modestly	8487		••			pluin			24.66	
Lump	8489	•	u			polishe	ıi •		29.58	

Triple Pole.

Modify	8490	Capacity in	Amperes	up to	25, plain each 4.14
Module	8492	•	ŭ	"4	25, polished " 4.98
Moist	8493		4	*	50, plain " 9,42
Moistening	8495	44		**	50, polished " 11.28
Mousture	8496				100, plain " 15.84
Moldiness	8498				100, polished " 19.62
Roem	20146			*	200, plain " 19.98
Rode	20147		44	•	200, polished " 23.97
Molest	8499				300, plain " 23.49
Molify	8501	**	u		3(0), polished " 28.29
Moli	8502		**		400, plain " 27.00
Molten	8504		**		400, polished " 32-49
Moment	8505				600, plain " 36-96
Momentus	8507	•			100, polished " 44-37

WITHOUT SAFETY CATCH HOLDERS.

Single Pole.

Monad	8508	Capacity i	n Amperes u	ıp to	25, plain each \$1.0	12
Monarchial	8510	4	•		25, polished " [.1	12
Monarchy	8511			•	50, plain " 4.0	is
Monastic	8513	•	4	4	50, polished " 5.5	8
Mongrei	2514		•	•	100, plain " 5.7	76
Monkey	8516	*	•	•	100, polished " 6.5	13

Double Throw—Single, Double and Triple Pole —(Continued).

Single Pole.—(Continued.)

Code Word.	List No.							t Price.
Rodent	20148	Capacity	in Amperes	up to	200,	plain	each	\$ 7.86
Rodge	20149	4		44	200,	polished	i "	 9.45
Monkish	8517		•	*	300,	plain	44	 8.61
Monopoly	8519	4		**	300,	polished	1	 10.38
Monotony	8520	4	4	u	400,	plain	44	 9.36
Monthly	8522			**	400,	polished	1 "	 11.25
Monument	8523	44	4	4	600,	plain	4	 13.56
Moore	8525	•		44	600.	polished	1 "	 16.29

Double Pole.

Mucaroni	8526	Capacity is	n Amperes,	up (to 25, plain, each 2.70)
Muce	8528	**	4	*	25, polished " 3.24	4
Mucarate	8529	4	•	**	50, plain " 6.24	4
Machinery	8531		••	**	50, polished " 7.50	•
Machinist	8532	4		**	100, plain " 9.30	6
Madam	8534	•	**	**	100, polished " 11-25	3
Rodomel	20150			**	200, plain " 12-24	4
Rocstone	20151		•		200, polished " 14.73	3
Madeap	8535	**	••	•	300, plain " 14.25	5
Madman	8537	**	**	**	300, polished 17.10	
Madness	8538	••	••	••	400, plain " 16.20	0
Magazine	8540	•			400, polished 19.4	4
Maggot	8541	•	44	**	600, plain 21.9	
Magic	8543		4	4	600, polished " 26.3	4

Triple Pole.

Magicul	8544	Capacity in	Amperes	up t	o 25,	plain	euch	3.78
Magistrate	8546		ü	•	25,	polished	d "	4.53
Magney	8547	4		**	50.	plain		8.28
Magnifying	8549	**			50	polished	d "	9.96
Magnitude	8550		4.	**		plain	**	14.10
Magpie	8552	44	**	••		polished	1 "	16.92
Roque	20152			**		plain	**	17.73
Rodgeship	20153		"			polishes	1 "	21.30
Makemetan	8553					plain		20.85
Maiden	8555	**		**		polished		25.05
Maidenly	8556					plain	٠	23.97
Mained	8558	••				polished		28.77
Maining	8559	44	**			plain		32.58
Mainwil	8561					polished	ı .	39.09

Malapert Mularia

Maleantent

8573

Double Throw-Single, Double and Triple Pole

(Continued).

WITH SAPETY CATCH HOLDERS.

Code Word.

Nos. 8562, 8568 and 8574.

Single Pole.

b to 800, plain, each ... 24-52 ... 24-52 ... 24-52 ... 24-52 ... 24-52 ... 24-52 ... 24-52 ... 24-52 ... 25-62 ... 24-52 ... 25-62 ... Code Word Royal Roya Maintain Maiz**e** 20154 Capacity in Amperes up to 800, plain, 20155 " " 800, polishe 8562 " " 1200, plain 8564 " " 1200, polishe maize Majestic Majar 8565 **.** " 8567 Double Pole. p to 800, plain each. 41.32 = 800, pollahed = 49.68 = 1200, plain = .64.55 = 1200, plain = .77.48 = 1800, plain = .77.45 = 1800, pollahed = .93.36 Roist 20156 Cupacity in Amperes up to 800, plain u u Ruke 20157 . Majority 8568 8570

Triple Pole. Capacity in Amperes, up to 800, plain, each. \$3.23

" " 800, pollshed " . 75.98

" " 1200, plain " . 103.29

" " 1200, polished " . 123.55

" " 1800, plain " . 116.16

" " 1800, polished " . . 139.39 20158 20159 8574 8576 Rokenge Role Mope Moping Moral Moralita 8579

WITHOUT SAPETY CATCH HOLDERS.

Single Pole. Rollcall Roller Moralize Morass Morbid Morbidness Double Pole. 20162 Capacity in Amperes up to 800, plain Rollerbolt Rollermill

p to 800, plain each. 37.14

" 800, polished " . 44.00

" 1200, plain " . 57.38

" 1200, polished " . 58.74

" 1800, polished " . 68.74

" 1800, polished " . 82:33 Morose 8586 Malicious 8588 u Maline 8589 . Malionity 8591

Double Throw-Single, Double and Triple Pole (Continued).

Separate Lugs for Blade Switches.

				-	10000				
Code Word.	LIN No.							Lin	Price
Micamon	8598	Capacity in	Amperes	up to	25,	plain	eac	h	-11
Mecmmoth	8599	0	-	16	25,	polishee	4 4		-12
Manade.	8600	188	- 14	16	50,	plain	44.		.15
Monacled	8601	14-	61	40	50,	polished	1 "		.17
Romage	20166		44	**	100,	plain	44		.29
Roman	20167	44	- 16	140	100,	polished	4.1		.34
Manacling	8602	4	46	14.	150,	plaln	*	146	.29
Manage	8603	M	46-	4	150.	polishee	1 16		.34
Remance	20168	16	.16	10	200.	plain	- 14	1000	.44
Romaunt	20169	**	611	46	200,	polished	3 11		.49
Management	8604	**	-11	46	300,	plain	M		.58
Manager	8605		**	16	300,	polished	*	14	.65
Managing	8606	*	4	#	400,	plain	-		.58
Manakin	8607		44	h .	400,	polished	1 14	****	.65
Mandemus	8608	88	44	4.	600,	plain	ia		-73
Manduria	8609	35	16	15	600,	polished	1 "		.80
Romeine	20170	40.	46	146.	800,	plain	11		.97
Romekin	20171	- 64	16	*	800,	polished	1 11		1.07
Mandate	8610				200,	plain	*	1441	2.20
Mandatory	8611	44	-16-	14.]	200,	polished	1 "		2.44
Mandrake	8612			* 1	800,	plain	A	mi	3.34
Mandrel	8613	46	44.	41	800.	polished	1 14		3.67



No. 20190 Open



No. 20130 Clouds

Bryant High Tension Service Switch and Fuse Box Combined.

Designed for 500 Volt Motor Service Switch. Made of Iron, state lined, state thoroughly baked in oil. It is double pole, double break. The distance between the terminals is five (5) inshes. The positive and negative sides are separated by state.

When opened the fuse terminals have no connectious whatever with the live wires, and are therefore safe and convenient to fuse.

When the box is closed no live parts can be touched either intentionally or by accident. It is moisture and

weather proof.

The box is also adapted to work on primary alternating eirquits 1000 voits. It combines both the features of a unt-out and knife switch.

Larger sizes made to order.

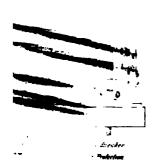
Price of Connections for Blade Switches.

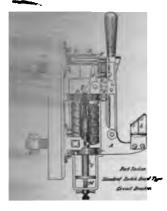
in figuring the cost of Kulle Switches on pages 46 to 33 inclusive, add to the list prices the list prices of connections herewith.

Prices on connections are subject to the same discount as the switches.

	FOR	SING	LE	THRO	v.	FOR DOUBLE THROW.						
*	Ampe	res, I	Pole		\$.27	1 5	Amper	es, 1 l	Pole		\$.39	
25	-	٤	-		.54	25		2	•		-81	
25	-	3	-		-81	25	-	3			1.20	
50	-	1	-		.69	50	•	1	-		1.20	
50		2	••		1.35	50	-	Ž	•		2.40	
50	•-	3	**		2.00	50	•	3	••		3.00	
100	-	i	••		-87	100	••	ı	٠.		1.74	
100	••	2	-		1.74	100	•	2	-		3.48	
100	••	3	•		2.79	100	-	3	• .		5.22	
300	••	1	•		.93	200		1	٠.		1.86	
200		2	•		. 1.86	200		Ź	٠.		3.72	
900	••	3	••		2.94	200		3	٠.		5.58	
300		1	••		1.20	300		1	۳.		2.46	
300		2	*		2.40	300		ż	٠.		4.80	
300	••	3	•		3.60	300	••	3	٠.		7.41	
400	••	i	•		1.62	440		ı	٠.		3.30	
400		2	**		3.24	400		2	•		6.66	
400	••	3	••		4.80	400		3	٠.		9.99	
600	••	1	••		2.13	600		1	•		4.20	
600		2	**		. 4.26	600	•	2	••		8.52	
600		3	**		6.39	600		3	٠.	.	12.78	
800	**	1	••		2.94	M00		1	•• .		5.23	
800	•	2	••		5.88	i 800		2	••		11.46	
800		3	••		8.82	800		3	۰.		17.79	
120u		1	••		4.02	1200		1			8-67	
1200		2	••		8.01	1200		2	٠.		17.34	
1200	•-	3	••		12.00	1200	4+	3			25.98	
1800	••	1	**		4.14	11100	••	1			9.00	
1800		2	••		8.28	144		2			19.98	
1800		3			12.66	1900		3			30.99	
		Switche	S. AS .	bove, ? C	o-nections.		ngle Pale !	Switcher	, as al	ove, 3 Co	angillana.	
	euble "			6			ouble "			6	-	

In ordering Switches, be sure to specify connections if they are desired.





"I-T-E" Circuit Breakers .- Continued. Special Instructions.

In ordering state style of finish by number- (whether No. 1 or No. 3);—character of base—(when ordering No. 1 finish). Also state whether circuit breakers ordered are desired for direct or alternating current. If to be shipped unmounted, state thickness of switchboard on which the circuit breaker will be used.

The "I-T-E" Circuit Breakers can be furnished on plain, polished or enameled slate or marble, as desired. Unless otherwise ordered slate bases will be furnished.

Special size and style bases will be furnished on receipt of definite information, for which special prices will be given on application.

We are prepared to furnish "I T E" Circuit Breakers to meet the

varying requirements of storage battery work on receipt of definite information.

The "I-T-E" Circuit Breaker has frequently been used as an ampere meter for obtaining readings of sudden flows of current. When the Circuit Breaker is desired for such work, if advised, we will carefully calibrate the same for each adjustment throughout its range.

ACTUAL RATING. -The Cutter Electrical and Manufacturing Co.

Heating of any part of Circuit Breaker not to exceed 20

Scannard. Treating of any part of them breaker in sto exceeding. C. above surrounding atmosphere after a 10-hour consecutive flow of current, as tabulated in column under heading of actual rating.

INFORTANT NOTICE.—While the range of the "I T E" Circuit Breaker is very great and allows of large jump of current; it sure not be used for carrying continuously current in excess of its actual rating.

Detail Section of "I-T-E" Circuit Breaker, Standard Switchboard Type.

- .t Iron Jacket.
- B Solinoidal Coil.
- Movable Plunger. D Fixed Plug.
- E Striker Pin.
- F Catch of Striker Plate.
- G Catch of Switch Arm.
- II Striker Plate to throw Switch out. I Spring Piston.
 J Spring Tube, head removable.
 K Steel Striker Plate on Arm.
- L Buffer Springs.
- M Adjusting Screen.

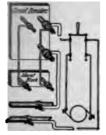


Diagram No. 1.



Diagram No. 2.

Diagram of Connections of "I-T-E" Current Breakers.

Diagram No. 1.

Showing method of connecting "I T E" Circuit Breaker and protected Terminal Fuse Shunt Block.

Diagram No. 2.

Showing method of connecting Double Pole "I T E" Circuit Breakers.



Circuit Breaker with Swinging Arm Handle.



Throwing in Arm.

I-T-E Automatic Magnetic Circuit Breakers -(Continued).

This cut represents Circuit Breaker with Swinging Arm Handle to permit of its location at top of Switchboard or under hood of street railway car-

Throwing-In Arm.

Throwing-In Arm for use on 800 Ampere Single Pole and larger, and 300 Ampere Double Pole and larger

This arm is included in price for above size Circuit Breakers.

I-T-E Shunt Block with Protected Terminal Fuse.

For high voltage work, where an extra precaution is desired to protect the contacts of circuit breaker, it is advisable to use the protected terminal fuse and shunt block. By means of this device the are is transferred from the contacts of circuit breaker to a favorably located fuse of such construction that the terminals of fuse block are protected and areing cannot be expected. maintained.

These fuses are much less in carrying capacity than the minimum ad-justment of the circuit breaker, hence they afford an absolute protection.

Shunt Blocks.

Style A 2, 000-80 Amperes, each \$6.00 Style A 3, 80-5 " 5.00 Price includes an extra set of plugs.

Protected Terminal Fuses.

			SALLCH	BOARD TIPE		
For	2,000-1,000	Amperes,	per 100		 10.10	6.00
For	H00-				 	4.50

SIZE OF STANDARD SIZE OF FUSE TO PROTECT STANDARD



Complete Shunt Block

Extra Plugs and Fine for Sha



Protected Terminal Fuse.

CIRCUIT	BREAKERS.	CIRCUIT BREAKEDS.						
Code	Capacity Amperes. Actual.	Type Shant Block.	Primary Fuse	Metal.				
10	2000	A-1	No. 10 B. & S.	Copper.				
PI	1500	A-1	10 "	2				
AI	1500	A-1	12 "	- 4				
QI	800	A-1	12 "	-44				
OI VI BI	600	A-2.	14 **	- 1				
BI	500	A-2	201 11	44				
VI	400	A-2	18 "	100				
CI	400 300	A-2	18 "	100				
DI	200	A-2	18 "					
GI	100	A-2	18 "	-				
WI	80	A-2	20 "	- 4				
HI	60	A-3	22 "					
XI	45	A-3	24 4					
KI	45 30	A-3	16 Атр.	Lead and Tin-				
YI	20	A-3	30 "	*				
MI	10	A-3	5 4	(4)				
NI	5	A-3	3 -					

I-T-E Mercury Contact Circuit Breakers

For Direct and Alternating Current both in Single and Double Pole.

SPECIALLY DESIGNED FOR CURRENTS OF HIGH VOLTAGE.

The contacts and mercury-containing cups are made of aluminum, a metal with which mercury will not amalgamate.

This form of Circuit Breaker is intended to be used for service wires entering buildings and also for all mains carrying currents in excess of 10 amperes. There are but two forces employed in this device, namely, gravity and magnetism.



5 Amperes to 60 Amperes, Single and Double Pole, 6 x 7 x 7 inches.

	Actual	ADJUW	TMENT AM	PERES.	Phi	CE.
CODE.	Amperes.	Steps.	Lowest.	Highest.	Single Pole.	Double Pole.
Hg NI Hg MI Hg YI Hg KI Hg XI Hg HI Hg WI Hg GI	5 10 20 30 45 60 80	2 4 5 15 15 20 25 30	4 8 15 25 35 46 65 75	12 24 40 75 90 125 175 200	\$12,00 16.50 22,50 30,00	\$16,50 22,50 30,00 36,00

The jackets and all other non-current carrying parts are nickel-plated. The current-carrying parts are polished aluminum.



Damble Pole Mercury Contact.

I-T-E Mercury Contact Cicrcuit Breakers

For Underload and Overload.

scially designed for use in connection with Motors, to open a circuit of an overload; also, to open the circuit in case of an underload or a setween motor and service supply. This special device protects and building against overloads and fires resulting therefrom. It also a the generator and cables against sudden overloads. The underload protects motor and building in case the current is momentarily out to generator end.

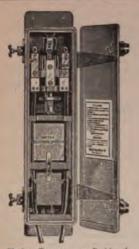
Size of Base.

5 Amperes to 60 Amperes, Single Pole and Double Pole, 6 x 7 x 2 inches

CODE.	Actual Rating Amperes.	OVERLOAD ADJUSTMENT AMPERES.			Underload	PRICE.	
		Steps.	Lowest.	Highest.	Adjustment Amperes.	Single Pole.	Double Pole.
Hg N2I Hg F2I Hg M2I Hg L2I Hg Y2I Hg T2I Hg K2I Hg X2I	5 7½ 10 15 20 25 30 45	1 15 2 3 4 5 6 9	5 8 10 15 20 25 30 45	10 16 20 30 40 50 60 90	1 11 2 3 4 5 6	\$16.50	\$22.50
Hg H2I Hg W2I Hg G21	80 100	12 16 20	80 80 100	180 160 200	12 16 20	23.50 30.00 40.00	40.0 50.0



Underland and Overland.



Platform Type, to use on Dashboard.



Fase Block



Sill Type, to use on Platform Sill.

I-T-E Automatic Magnetic Car Circuit Breaker.

The severe conditions under which street railway equipments operate demand some other protection than that afforded by fuses. Briefly, the following troubles in Electric Railway Service are remedied by the use of the "I-T-E" Magnetic Circuit Breaker.

Carcless treatment and abuse of equipment by incom-

Carcless Ireatment and abuse of equipment by lacompetent or reckless motormen.

Interference of travel, due to power-station Circuit Breakers opening on the failure of some individual car.

The continuance of the arcing, present after a "ground" or "short circuit" occurs, in the motor equipment, owing to the sluggishness of the heavy fuses to "blow," results in the destruction of aurrounding material and insulation.

Development of new flava and faults in the apparatus, during a "short circuit" or "ground," owing to the abmemal carrying capacity of fuses employed.

The circuit is opened in less and less time as the circuit protected approaches nearer and nearer a "short circuit." Positively no burning or bilatering of contacts when circuit breaker opens.

Means of keeping a record of each time circuit breaker is opened.

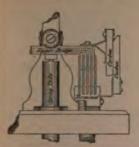
is opened.

The device is simple and inexpensive to maintain.

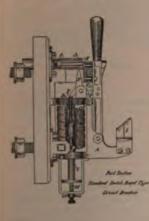
Adjustment independent of friction, springs or other features liable to cause alteration.

TYPE.	RATING AMPERES.		ADJON	PALENT AN	LIST PRICE.		
	Arrual	Nominal	Steps.	Lowest	Highest.	Sill.	Dashboard
RI	00 60	80	25 50	100	175	\$18.00 18.00	\$19,50 19.50

Prices quoted on larger sizes and on special forms on receipt of information glying requirements.



Top Fier of Circuit Breaker Sharing Carbon Protection



"I-T-E" Circuit Breakers .- Continued. Special Instructions.

In ordering state style of finish by number-(whether No. 1 or No. 3);—character of base—(when ordering No. 1 fluish). Also state whether circuit breakers ordered are desired for direct or alternating whether circuit becakers ordered are desired for direct or siterating current. If to be shipped unmounted, state thickness of switchboard on which the circuit breaker will be used.

The "I.T.E" Urcuit Breakers can be furnished on plain, polished or enameled state or marble, as desired. Unless otherwise ordered

slate bases will be furnished.

Special size and style bases will be furnished on receipt of definite

information, for which special prices will be given on application.

We are prepared to furnish "I.T.E" Circuit Breakers to meet the
varying requirements of storage battery work on receipt of definite

Information.

The "I-T-E" Circuit Breaker has frequently been used as an ampere meter for obtaining readings of sudden flows of current. When the Circuit Breaker is desired for such work, if advised, we will carefully calibrate the same for each adjustment throughout its range.

ACTUAL RATING.—The Cutter Electrical and Manufacturing Co. Standard. Heating of any part of Circuit Breaker not to exceed 20 deg. C. above surrounding atmosphere after a 10 hour consecutive flow of current, as rabulated in column under heading of actual rating.

IMPORTANT NOTICE.—While the range of the "I-T-E" Circuit Breaker is very great and allows of large jump of current, it must wor be used for carrying continuously current in excess of its actual

NOT be used for carrying continuously current in excess of its actual ruting.

Detail Section of "I-T-E" Circuit Breaker, Standard Switchboard Type.

- A Iron Jacket
- H Sollnoidal Coil.

 O Movable Plunger.
- D Fixed Plug.
- E Striker Pin.
- F Catch of Striker Plate. G Catch of Switch Arm.
- II Striker Plate to throw Switch out.
- I Spring Piston.
 I Spring Tube, head removable.
 K Steel Striker Plate on Arm.
 - Buffer Springs.
 - M Adjusting Screen.



Diagram No. 1.

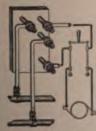


Diagram No. 2.

Diagram of Connections of "I-T-E" Current Breakers.

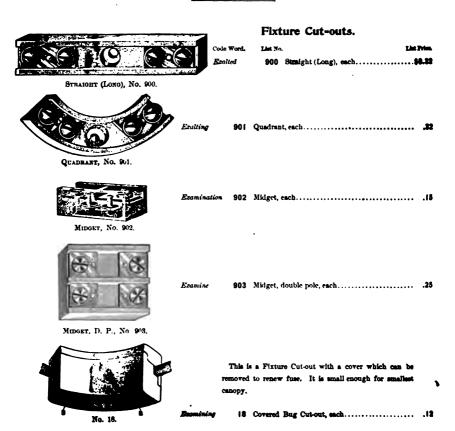
Diagram No. 1.

Showing method of connecting "I T E" Circuit Breaker and protected Terminal Fuse Shunt Block.

Diagram No. 2.

Showing method of connecting Double Pole "I-T-E" Circuit Breakers.

CUT-OUTS.





Fixture Cut-outs-(Continued).

This is similar to No. 18, but is made straight instead of curved, and can be used wherever a single pole Cut-out is desirable, or where wires are run over moldings or



List No.

19 Covered Bug Cut-out, each \$0.12

List Price.

Use No. 18 for fixtures using 5 amperes and under. For larger fixtures use No. 19.





The Bryant Bug Cut Out.

Code Word List No B. E. No List Price Finegurd 24487 1106 Each \$0.12

Concave-head contact screws in the base, and convex in the cap, haure a perfect contact where the two con-necting wires are of different gauge.

The cover, being held in place by but one nut, can be readily removed for fusing.

No. 24487-Covered.



Exector 61116 " " 5 " Hard

Rubber Base, 11 inch long, each.





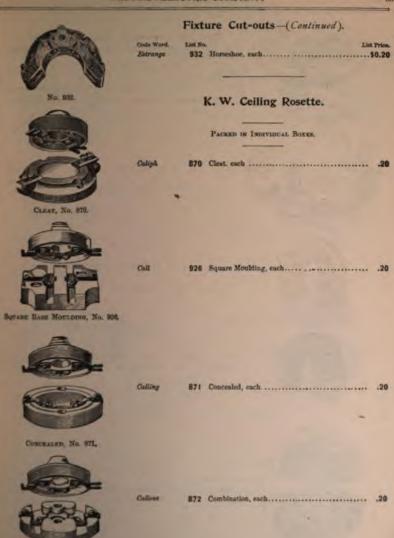
Medium Horseshoe Cut-out.



Medium Horseshoe Cut-out-(Continued).

This is a very small double pole Horseshoe Fixture Cut-out, measuring only \$1 inches at its greatest diameter,

Fixture Cut-outs.





K. W. Cleat Rosette-Improved Side Pieces.

Link Tries.



Self-Tying Ceiling Button

170 Per 100



Dovetail Rosettes.

Cateb 2300 No. 101, for Cleat Work, each.....





Dovetail Rosettes-(Continued).

List No.

List Price.

Calibre

2302 No. 104, for Moulding Work, each...........50.40

No. 13-2



Calico



Fuseless Rosette.

This Fusciess Resette is useful in factories and places where it is difficult to replace fuse. Five or six can be used on a branch with small branch block. It is fitted with a substantial clamp for wire, which also has a screw and washer at inner end to fasten the lamp cord to.



Combination Rosette.

Made in three styles, viz.: No. 80, for cleat and concealed; No. 81, for moulding or 3 wire and concealed; No. 82, full combination, for cleat, moulding, 3 wire and concealed. With No. 82 you can do any kind of wiring with the same Rosette, and it is only necessary to carry one kind in stock to be able to do any job.



Combination Rosette-(Continued).



Eugenio

82 For Cleat, Moulding, Concealed and 3 wire,

No. 89.

"P. & S." High Insulation Ceiling Button.

This Ceiling Button effectually keeps the wire away from the ceiling. It is small, being but I inches in diameter.

Eutogus

70 Ceiling Button, per 100..... 2.50



Bryant Rosette and Cleat Combined.

The upper and lower parts are fastened together by the well-known K, W. Fastening.

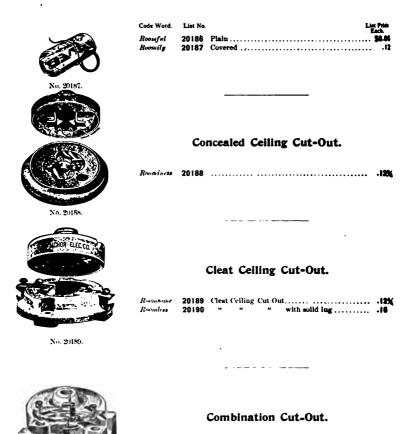


"P. & S." Celling Rosette with Cap.



No. 20191.

Anchor Covered Chandelier Cut-Out.











No. 25413.

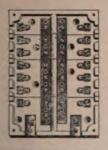


No. 25117.



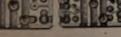
No. 25421.





Two-Wire Tablet Board.











No. 25426.

No. 25427.

New Style Cut Outs.

Acaulosa

List No.
25407 Rubber Covered
Midget Cut Out
25408 Porcelain

P. Branch Cut Outs,

Acceleration	25409	10	amperes	capacity
Accelerative	25410	25		,46
Accelerator	25411	50		40
Acceletory	25412	100	M	44

P. Main Cut Outs.

Accend	25413	10	amperes	capacity	
Accondibility	25414	25	44	*	
Accendible	25415	50		-	
Accension	25416	100	*	46	

P. Main Cut Outs.

Accentor	25417	10	amperes	capacity	
Accentual	25418	25	.11	11	
Accentuate	25419	50	- 4		
Accentuation	25420	100	16	**	

P. 500 Volt Motor Cut Outs.

Acceptablity 25421 30 amperes capacity
Acceptability 25422 60 " "
Acceptably 25423 150 " "

Multiple Circuit Tablet Boards.

Built in any number of circuits from four up.

Branch Cut Out Block.

Acceptancy 25424 (1299 Two or three

wire capacity 30 amperes.

Acceptation 25425 1235 Two or three wire, capacity 30 amperes

Acception 25426 2235 Three wire, single branch, capacity 30 amperes......

Main Cut Outs.

Acceptions 25427 1365 Three wire, main, capacity 75 amperes.
Acceptor 25428 1265 Three wire, main, capacity 30 amperes.















No. 2/725,

B. E. Rosettes.

Patented September 13, 1867. April 89. 1869; and April 29. 1865.

Caps are interchangeable and will fit any B. E. Rosstte.

Rase,

The principal advantage of the B. E. Rosette lies in
the adjustable spring contact in the cap. Blight pressure of a scriw-driver against the spring will tighten or
loosen the contact as desired.

Code Word	List No	B E. No	Last Price Fach
Volant	24477	1082 For Cleat Work	

Volley	24478	1083	For Concessed Work	·	.15

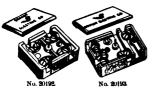
Bryant Porcelain Tablet Board.

For Two-Wire System.

Surger		10%	2	Circuit	١.			٠.		 			٠.		 ٠.	 Į.
Surret	20724	10%	4	••											 ٠.	 2
Sucrument	20725	1087	6	**									٠.		٠.	 3.
Sucramental	20726	1088	8	٠.											٠.	 4
Sacrarlam	20727	1089	10	**											 	8.
Sucrete	20728	1090	12	4					 		 					 6.
Sucre	20729	1091	14	44			 					 			 	 7.



WESTERN ELECTRIC COMPANY.



Bryant-Edison Fuse Blocks.

n and Branch-Porcelain Covered.

List No List Prits Each.
20192 1495—30 Ampere, B. P. Main Line Cut-Out., . .,50

20193 2535-30 Ampere, D P Single Branch Cut-Out .60



Restrict 20195 1435-25 Ampere, D. P Double Branch Cut-Our .55



20196 1487-30 Ampere, D. P. Double Branch Cut-Out .85



Edison Link Fuse Cut-outs on Porcelain Bases. These Cut-outs have been designed for use on both the two and the three-wire systems, and are intended to protect circuits having a potential of not over 125 volts across one link. No. 61569 Code Word. List Price. Exangelia 61569 Single Pole Main Line Cut-out, capacity 75 amperes, each -75 No. 01405. Essential 61465 Double Pole Main Line Cut-out, capacity 30 Emporating 61565 Double Pole Main Line Cut-out, capacity 75 amperes, each...... 1.20 No. 61565. Brapprated 62835 Double Pole Single Branch Cut-out, capacity 30 amperes, each.... No. 63835. Econgelist 61243 Double Pole Single Branch Cut-out for wire up to No. 0 B. W. G., capacity 75 amperes, each., 2.00 Emporats 61245 Double Pole Single Branch Cut-out for wire up to No. 6 B. W. G., capacity 75 amperes, each.. 1.50

Reasion 61487 Double Pole Double Branch Cut-out, capacity 30

No. 61487.



Edison Link Fuse Cut-outs on Porcelain Bases -(Continued).

Code Word. List No.

Last Price. Espoused 61587 Double Pole Double Branch Cut-out for wire up to No. 0 B. W. G., capacity 75 amperes, cach. \$4.00

No. 61587.



Espy 61535 Double Pole Double Branch Cut-out for wire up to No. 6 B. W. G., capacity 75 amperes, each. 2.50

No. 61585.



No. 61299.



No. 61265.



No. 81385.



No. 61135.

Espying 61299 Three to Two-Wire Double Branch Cut out,

Esquire 61265 Three-Wire Main Line Cut-out, capacity 20

61365 Three-Wire Main Line Cut-out, capacity 75 amperes, each.... 1.75

Encycl 62235 Three-Wire Single Branch Cut-out, capacity 20



No. 81247.



(Continued).

Edison Link Fuse Cut-Outs on Porcelain Bases.



61235 Three Wire Double Branch Cut-out, capacity 30 2.25 Rannage 28230 D. P. Double Branch Porcelaio Cover, 10 Amp











Edison Plug Cut-Outs on Porcelain Bases.

These Cut-outs have been designed to protect circuits having a maximum current of 30 amperes, at a maximum potential of 125 volts.

MAXIMUM CAPACITY, 30 AMPERES.

Escorting 62965 Double Pole Main Line Cut-out, each50



Excrese 61935 Double Pole Single Branch Cut-out, each Escatcheon 62945 Double Pole Single or Double Cross over Branch,

each 1.30



Esculent 62587 Double Pole Double Branch Cut-out, each L.10





No 62199.



No. 62165.



No. 62135.



No 88897



No. 884



No. 988.

Edison Plug Cut-outs on Porcelain Bases-

(Continued).

Code Want.	List No.	Lia Pers	
Especial	62199	Three to Two-Wire Double Branch, each \$1.25	

Espousal	62165	Three-Wire Main Line, each	*	-80
----------	-------	----------------------------	---	-----

Espense 62135 Three-Wire, Double Three-wire Branch, each. 1.50

Edison Fuse Plugs,

FOR USE WITH PLUG CUT-OUTS ON PORCELAIN BASES.

			_	-				
Escalado	66327	Fuse Plug,	maximum	capacity,	-3	nuperca,	each,	-12
Eleca pade	66329	99.	41	**	B	44	81	,12
Escape	66331		31		10	**	10	112
Escapement	66333		- 22	- 11	12	**	-64	.12
Escaping	66335	41.	9	- 11	15	14	**	-12
Escarp	66337	**		- 10	20	**	**	.12
Exchesi	,66339	"	9	-11	25	**		.12
Escurt	66341	**	92.	**	30	**	**	(12

Sawyer-Man Main Cut-outs.

Established	884	Capacity,	10	amperes,	ench	١.,			·	8						 .45
Estate	885	- 44	25													.60
Esteem	886	31	30	**	24	14	ı,	.,		ä	ı,	a	.,			 .85
Esteemed	887	-16	100		16	.,			ı	è						 1,35

Sawyer-Man Main Cut-outs, Covered.

Reterming	938	10	Amperes,	each	-40
Esthetia	939	25	**	***************************************	.65
Eather	940	50	-	** ************************************	.80
Estimable	941	100	**	**	1.00



Sawyer-Man Branch Cut-outs.

Code Word.	List No.								1.iut	Price
Estimate	888	Capacity,	15	Amperes,	each	 ***			5	.14
Estimated	889		25				 			.20
Estimating	890		50				 			.44





Sawyer-Man Branch Cut-outs, Covered.

Estimation	942	15	Amperes,	eacl	harman and a second	.14
Estimative	943	25	**	**	animate and the second	.22
Estoppel	944	50		4	***************************************	.46

No. 942,



K. W. Branch Cut-outs.

Estray	188	10 /	imperes,	each.	 .50
Estreat	882	30	40	**	 .90
Etch	883	50			 1.00

No. 881.



K. W. Main Line Cut-out.

Etched	878	10.	Amperes,	each	***************************************	.50
Etching	879	30	10	-11		.80
Eternal	880	50	**	**		.90



Improved Form of S. M. Branch Cut-Out.

 Code Word.
 Lat No.
 Last No.

 Ramist
 20172
 25 Amperes, each
 \$0.45

 Romp
 20173
 36
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Special Branch Blocks.

No. 20174.



500 Volt D. P. Cut-Out.

No. 20176.



500 Volt S. P. Cut-Out.

945 100 " "

No. 945.

Seymour's Patent Branch Block.

Code Word.	Link No.		A comme	-	AT	-							Price.
Errelasting	1326	10	Amperes,	With	china cover,	CACI).	53	200	53		 м	10.25
Englation	1328	25	**	**	**	10		ij,				 ä	.35
Deset	1330	50	- 11	16		"					4		.57

Ecergraen	1325	10	Amperes,	without cover,	each	-17
Ecermore	1327			41	11	.27
Every	1329	50	10	**	·	.47

Sawyer-Man Main Block.

We furnish Sawyer-Man Main Blocks complete, with or without fuse plug. The fuse plug is a unique device for holding the fuse, and also acts as a cover for the fuse. To insert fuse, loosen screws AA one or two turns and insert fillie between brasses, tighten screws and the fuse will be held in position, and the plug can then be inserted under the regular screws on the Main Block.

That will fit any make of Sawyer-Man Main's.

	DIED LIE WOL	MONE	or	OWATER.	MAR	PLA	this.		
22	Sawyer-Man	Main	, 10	amperes,	each			 See.	.17
23	**	**	25	n	11			 	.23
24	**	**	50	**					.34
25	***	44	100		**				.60
26	Fuse Plug.		10	144					.05
27			25	-11	41			 	.05

Double Pole Switch Cut-out.

This Cut-out is of new design and embraces certain features specially adapting it for use in the mains, feeders and sub-feeders of locandescent wiring systems.

The terminals and Switch mechanism are of ample proportions for the service required, and at the same time are so compact in arrangement as to take but little room, a very desirable feature when the limited space allowed for Cut-out cabinets in buildings is considered.

The Switch breaks ofther pole independently, making a quick break, and cannot be caused to open or close or become loose in connection by any jar communicated through a building.

Knext	2405	100	Amperes,	6.BC	B.;	90	о	4,		**	- 11	0	•	Ø.	۰	о	-	i is	5	, e	ł
Reentful	2406	200	4.6	12							 	ä		'n.					6	.0	
Eccutual	2407	300		100	-					.,									7	.5	
Everylade	2408	400		14																	
			-	_		=		-													

Multiple Cut-out Board.



Enouration.

1320 Per Circuit

Ementially

Establish



Nos. 2588 to 2592.

Safety Fuse Block.

Code Word.	List No.		Soapst	one	Ba	se.								Lie	Prior
Excel	2588	25	Amperes,	each			 				64			7	\$2.5
Excelled.	2589	50		Am											2.7
Excellence	2590	100		15								ų,			3.0
Excellency	2591	250		114										H	3.5
Excellent	2592	400	-0.0	-17			 	ű.		.,			i.		4.0

Covered Motor Cut-out.

Single Pole.

This Cut-out is designed for motors on power circuits, and as it has a fuse 3 inches long, it is expectally adapted for 500 volt circuits. The channel which incases the fuse is of such a shape as to cause the fuse to be bept at four angles, which adds to the efficiency, as it is difficult to maintain an arc around an angle. To remove fuse cover, to renew fuse, loosen screws AA one balf turn. 38 20 Amperes, each.....



No. 2409.

Special Fuse Holders.

With Cable Terminals.

2409 each......



No. 2576.



No. 2580.

Main Line Fuse Blocks.

For use in main line circuits where no switch is required. Mounted on slate base, and, wild exception of fuse bat,

Single Pole. 2576 1 to 25 Amperes, each.....

Erasperated Eccarate	2578 2579	" 100 " 800 " " " " " " " " " " " " " " " "	2.5
		Double Pole.	
Recarated	2580	1 to 25 Amperes, each	2.0
Enunting	2581	Over 25 to 100 Amperes, each	
Exequator	2582	" 100 " 300 " "	5.0
Eccaration	2583	300 - 600	7.0
		Three Pole.	
Provide Inc.	2584	1 to 25 Amperes, each	3.0
Exercit		Over 25 to 100 Amperes, carity	4.5

" 100 " 800 " " " 300 " 600 " " " Ten per rent. advance for 500 volta.

Cut-Out and Distributing Boards.



No. 101 M.



No. 105 M



No. 145 A.

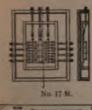


No. 145 B.

We illustrate a few of the many different styles of Cut-Out and Distributing Boards.

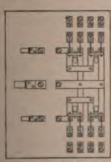
As most of these Boards are made in special sizes to suit the various constitions, it is difficult to list them. We have facilities for furnishing any style of these Boards, and will quote prices on receipt of specifications and requirements.

Boards may be furnished with plain slate, marbleiged slate, or marble backs. Cut-Out boxes are made with single or double slate lining, and covers made of hardwood, slate or glass.



To be found that the found that the

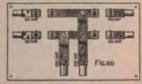
36c. 104 M.



No. 165 8.

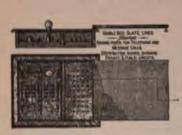


No. 135 M.



No. 100 M.

Cut-Outs and Distributing Boards .- (Continued.)



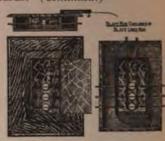


Fig. 146 M.

Fig. 147 M.

Main Branch Cut-Outs.

The Cut-Outs illustrated, Figs. 148 W and 149 W, are designed for large respectites and are for the purpose of taking circuits off from mains on each floor of large buildings. The Mains feed into the bottom of the Cut-Outs and out at the top, being fused at both points; if desirable, or coppereritys may be placed instead of fuses. The circuits branch each way on the sides and can be fused for the capacity desired. For all Cut-Outs over 200 amperes, parallel fuses are used, insuring sufficient contact on the bottom of the fuses to carry the current without heating from lack of contact. The space occupied by the fuse tips is reset, making it impossible to twist the fuses when the set screws are of steel, copper-plated, with slotted hexagon heads, enabling the use of cither a wrench or screwdriver. The connections on the larger size of Cut-Outs are made with selved lugs which are of ample carrying capacity. The polarites are separated by one quarter inch slate insulation.

This style of Cut-Out is also made for the 3-Wire and 3-Wire convertible systems.

The neutral fuses and lugs are of twice the capacity of one of the outside to enable the wires to be thrown on the Z-wire system when desired.

Swivel lugs are used on all the Cut-Outs above 100 amperes. The contacts are mounted on slate or marble bases.

In ordering these Cut-Outs state what size of wire is desired to connect to the terminals and they will be bored accordingly,



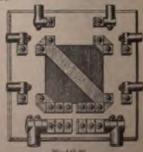


Fig 110 W.

SOCKETS AND RECEPTACLES.



Bryant Standard No. 1 Sockets.

List Price Each.

Arthur Amimilate	855 856	Westinghouse Keyless	
Ann	851	Thomson-Houston Key	.60
Annimilating	852		.50
Root	849		.60
Rooterup	850		.50
Exception	859	United States Key, each	.70
Exception	860		.60







No. 1 Bracket Sockets.

For Street Lighting. WITH & INCH OPENING.



No. 962.



No. 20204.





No. 20202.

Sockets with Extra Long Keys.

Any Bryant Key Socket can be furnished with extra long key to special order. In ordering specify distance from outside of shell to end of handle,

Bryant No. 2A Key Sockets.

lanthouse	20204	No. 2A, Thomson-Houston Key Socket	.21
lowtherif	20205	No. 2A, Thomson-Houston Keyless Socket	.15
lindless	20206	No. 2A, Westinghouse Key Sucket	.20
Constlet	20207	No. 2A, Westinghouse Keyless Socket	. 15

Bryant No. 2B Fixture Sockets.

Rondatork	20208	Thomson-Houston Key Socket	.2
Rendy	20209	Thomson-Houston Keyless Socket	.1
Rinner	20210	Westinghouse Key Socket	.2
Ropulic	20211	Westinghouse Keyless Socket	۱.
	By m	eans of the third buyonet joint, the shell is firmly	

by means on the base of the socket, making it impossible to "wobble" or "sag" when used with a heavy shade.

An examination of a sample lot will show its great advantage over the regular style.

Bryant Pull Socket.

Rootenter	20202	Thomson Houston Base	.5
Rooter	2020 3	Westinghouse Base	.5

G. E. Pull Socket.

Roothali	9400	Edison	Выяе	.0

.35

40



Bryant Standard No. 1 Wall Socket.

Code Word	List No.		H Price.
Rope	20212	No. 1, Thomson-Houston Key Wall Socket	\$0.25
Ropdond	20213	No. I, Thomson-Houston Keyless Wall Socket.	.20
Rapedancer	20214	No. 1, Westinghouse Key Wall Socket	.25
Ropeladder	20215	Westinghouse Keyless Wall Socket	-20
Ropemaker	20216	U. S. Key Wall	.64
Ropemut	20217	U. S. Keyless Wall	.54

Bryant No. 2B Fusible Wall Socket.



Caps are interchangeable and will dt any K.W. Rosette Base. Shell fitted with three bayonet joints, making a rigid fastening.



No. 20022

Bryant No. 2A Wall Socket.

Roperick	20222	No. 2A, Thomson Houston Key Wall Socket	.25
Roporalk	20223	No. 2A, Thomson-Houston Keyless Socket	.20
Ropeyern	20224	No. 2A, Westinghouse Key Wall Socket	2
Hopely	20225	No. 2A, Westinghouse Keyless Wall Socket	.20

Standard Edison Sockets.

polished

69323 Gen. Elec. Co. Key Socket with Fibre Ring,

69364 Gen. Elec. Co. Key Socket with Rubber Ring,

polished.....



Ropiness

Ropish.

\$5 ALCOR

Edison Sockets.



Code Word.	List No.	•	Lust Price Each
Ropy Ropus		G. E. Keyless Socket à in. Pipe, plain . G. E. T. H. Keyless Socket à in. Pipe, pli	



Condor Conduce	66223 66225			plain polished	.30 .35
	******		•	J	



		Keyless	Electrolier	Socket	for i in.		e, piala polished	.30
Excrente	66237	-	_	-	•	_	potened	.33



Excreation 9319 Keyless Socket for High Candle-Power Lamps 1.30



Roral	4505	Socket for Series Incandescent Lamp for Altern-	
		sting Current Circuits	2.00



Edison Sockets-(Continued).

Code Word	List No	Socket for Series Insundescent Lamp for Arc Circuits	Price
<i>Rarid</i>	4504		ch.
Kornness Horiferons		Edison Hard Rubber Waterproof Socket T. H. Hard Rubber Waterproof Socket	60 60
Rorifinent	20227	Edison Porcelain Waterproof Socket	.35
Rorifinent	20228		.35
Rornlent	66307	Edison Key Wall Socket, polished	.60







No. 66297.

	Wall Socket, plain	
 2000000	The state of the s	

WESTERN ELECTRIC COMPANY.

Nu. DICEM and 60stff.	Edison Code Word. Rosechafter Rosecolor	List No. 69368	List Proc. List Proc. Exch. Key Wall Receptacle, Edison Base Lamp, Porcelain Base, polished brase
No. 65069 and 65077.	Roseculured Rosecut		Keyleas Wall Receptacle, Edison Base Lamp, Purcelain Base, polished brass
No. 60281, 50078 and 50079.	Rosent Rose Koseal	66281 50978 50979	Edison Keyless Wall Socket, polished
No. 66295.	Rosente	66285	Edison Keyle-s Wall Socket, polished
No. 66972 and 66973.	Rosebs y Rosebug	66271 66273	Edison Keyless Wall Socket, plain

Weather-proof Sockets.

NA 9909



No. 3202.



No 3728.



No. 2027.

H. W. Johns Mfg. Co.'s Moulded Mica Lamp Sockets.

flade in Brown or Black.

Code Word.	List No		Price.
Architect	3203	Thomson Houston Base, Pendant Socket, 6 inch wires	.25
Arrhing	3202	Westinghouse Base, Pendant Socket, 6 inch-wires, each	.25
.trchibald	3201	Edison Base, Pendant Socket, 6 Inch wires	.25
Archer.	3204	" Mica Wall Socket	.40
Becoming	3728	" Mica Bracket Socket	-40

With Extra Long Wires.

	У	lica S	ockets, s	with wir	es 6 in	ches lo	ng	.25
		4		•	12			.271/4
		"	44	44	18	44		.30
		**	44	44	21	**		.35
			44	44	30	4		.40
			44	**	3 fe	et long	·	.45
		4	4	4	4			.55
		"	4	••	5	4		.65
		4	64		6	**		.75
		4	*	4	7	4		.85
		••	4	4	8	4		.95
		•	•	•	10			1.15
Lactatum	33834	Thou	nson-He	uston B	ase, Mi	ca Wall	Socket	.40
Lacteal	3384			se Base,				.40
Bedeck	3730	Tho	nson H	mse Bas	e, Mica	Brack	et Socket	.40
Bedding	2729	West	inghou	e Base,	Mica	Bracket	Seket .	.50
				inch pip				

Perkins Sockets.

Plain Sockets.

Romiciel Romicencian	Key Socket for Thomson Houston Base Keyless Socket for Thomson Houston Base	.40 .38
		_



Perkins Sockets.—Continued.

Plain.

Code Word.	List No.	•	List Price.
Rooted Rooter		Key Nocket for Westinghouse Base	
Mater	20237	repress sociately resultations passes.	



Wall.

Roxin	20258	Key Wall Socket for Thomson-Houston Base	.45
Rosiness	20259	Keyless Wall Socket for Thomson-Houston Base	.40
Rowinoil	20260	Key Wall Socket for Westinghouse Base	.45
Rosing	20261	Keyless Wall Socket for Westinghouse Base	.40



No. 20262.

		Fusible Wall.	
Radand	20262	Key Fusible Wall Socket for Thomson-Houston Base	.75
Rosmarine	20263	Keyless Fusible Wall Socket for Thomson Houston Base.	.70
Russ	20264	Key Fusible Wall Socket for Westinghouse Base	.75
Rosell	20265	Keyless Fusible Wall Socket for Westinghouse Base	.70
	tail Ros please s	Fusible Wall Socket is a combination of the Dove- ette Cut out and Perkins Socket. In ordering tate what style of base is required; whether cleat, ed or moulding rosette.	



Anchor Sockets.

		Plain.		
Code Word.	List N	List	Price	
Rostel	20269	Key Socket, T. H. Base		
Rooteinte.	20270	Key Socket, Westinghouse Base		.18
Roster	2027 I	Keyless Socket, T. H. Base		-10
Roetral	20272	Keyless Socket, Westinghouse Base		-10

Special 3-8 Keyless Socket.

Will screw on % inch pipe for street fixtures, brackets, etc.

ostrais	20273	Special for T. H. Base	.20
ostrum	20274	Special for Westinghouse Base	.20

Wall.

Rosulate	20275	Key Socket, T. H. Base	.20
Rot	20276	Key Socket, Westinghouse Base	.20
Rota	20277	Keyless Socket, T. H. Base	.18
Rotal	20278	Keyless Socket, Westinghouse Base	.18

No. 20276.



Cutter's Street Hood Socket.

Has the terminals exposed on the porcelain shell so that it is readily wired without pulling the wires through a narrow neck. Saves time and insures high insulation. Shipped complete with iron flange threaded to fit stand ard streethoods.

_ - - - - -

 20279
 Complete, T. H. Base

 20280
 " Westinghouse Base

 20281
 " Edison Base

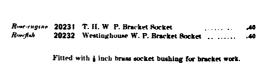


Bryant Porcelain Weatherproof Sockets.

nde Word	List No						List Price Each
lo ned s essioned	20229	T. H. Base					\$8.20
loued rop	20230	Westinghouse	Base	•••••	. 	•••	, .20



No. 20232.





No. 20233.

Side Wires.

fly	20233	Style A, for T. H. Lamp	.:
gull	20234	Style A, for Westinghouse Lamp	



No. 20235.

Bottom Wires.

low head	20235	For T. H. Lamp.	.3
lou kunt	20236	For Westinghouse Lamp	.3



Bryant Porcelain Weatherproof Sockets. —(Continued.)

 Code Word.
 List No.
 List Price. Each.

 Row-lake
 20237
 T. H. Base.
 \$0.20

 Row-life
 20238
 Westinghouse Base.
 .20



Porcelain Keyless Receptacles.

 Excitation
 888
 For Thomson Houston System, each
 .40

 Excitation
 1868
 For Westinghouse System
 .40



For Shade Holder.

No. 285A

For Cleat Work.

 Excite
 921
 For Thomson Houston System
 .15

 Excitement
 1921
 For Westinghouse System
 .15



Special Shade Holder Receptacle.

 Ecc
 948
 Westinghouse Base
 .20

 Eccs
 3948
 Thomson Houston Base
 .20

WESTERN ELECTRIC COMPANY. -----



Standard Edison Receptacles.

Code Word	List No.				List Price Each
Roschusk	69171			Receptacle,	
		screw	connectio	ons	 \$8.11



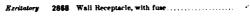
No. 69370.





No. 2868.

The Wall Heceptacle No. 2898 is intended for use with attaching plug and portable lamp. The fuse is the re-ceptacle protects the circuits without requiring a fuse in the attaching plug.





No. 2921.

Rzeiter 2921 Porcelain Receptacle for cleat work



No. 1948.

Eccline 1948 Porcelain Receptacle for cleat work to take Shade Holder



No. 929.



Standard Edison Receptacles—(Continued.)

Code Word.	List No.		List Price
Erching	1949	K. W. Shade Holder Receptacle	



Courtly 8830 K. W. Shade Holder Angle Receptucle80

No. 20240.

Edison Standard Waterproof Receptacles.

Romanory	20240	G. E. Waterproof Receptacle				
		heavy for refrigerators, stock yards, breweries				



		•			
20241	G.	E.	Waterproof	Receptacle	

..**.25** This is the same as No. 2921, with the side lugs taken off and bottom wires inserted.



No. 20242.

Extra heavy for refrigerators, stock yards, brewer79s, and out of door work.









No. 25174.



				Dack.
2 Thomso	a-Houston	Buse,	, concealed	\$0.20
3 #		4	cleat	-21
54 ⁴			moulding	.21
5 Westing	house	•		
6 4		4	cleat,	
7 "		•	moulding	.2
	33 # 54 # 55 Westing 56 #	33	63 " " " " " " " " " " " " " " " " " " "	54

	K. W	/. Shade	Hol	der	Receptacle.	
Abearance	25168	Thomson-H	ouston	Buse,	, concealed	.32
Abecedarian	25169	*	•		cleat	.32
Abed	25170	•	44	*		.32
Abele	25171	Westinghou	100	4	concealed	.32
Abeltree	25172	"			cleat	.37
Abelian	25173			4	moulding	.32
K.	W. . <i>S</i> I	hade Ho	lder	Rec	eptacle—Angle.	
Melite	25174	Thomson-H	ouston	Base	, concealed	.54
Abelonian.	25175		4	•	cleut	.54
Abelmark	25176	•	4	u		.54
Aberdecine	25177	Westinghou	ise.	4		.50
Aberr	25178				cleat	.54
Aberrance	25179	•			moulding	.54

Bryant Receptacle.

For Concealed and flouiding Work. Exciting Excitingly







Pony Receptacle.

Bryant Testing Base.

 Absent
 25296
 Bryant No. 1160 T. H. Base
 .18

 Absentection
 25297
 Bryant No. 1181 West Base
 .10

.17



"P. & S." China Key and Keyless Sockets.

List No. List Price. Each.
 20243
 Key Socket for Drop Lights, T: H
 \$0.15

 20244
 " W. H
 .15

 20245
 Keyless Socket
 " T. H
 .12
 Rosepink 20245 Keyless Socket 20246 " .12 ш Kowr .12 20247 Key Socket for Fixtures т. н 20248 Keyless Socket " W. H T. H18 .15 20249 -15 20250 W. H..... 20251 Key Wall Socket, 20252 " " T. H...... W. H.... enuter 20252 .16 20253 Keyless Wall Socket, Rost 20268



117 T. H. Porcelain Weatherproof Socket, P. & S. Beclunicely

> The standard length of wire in this Waterproof Socket is 8 inches. We can, however, furnish them to order with wires of any length. Where it is desired to drop lamps a considerable distance from mains, it is an advan tage to have wires long, so as to avoid splicing the wire.







Exclude

bination Resette.

108 With small back for Thomson Houston Base....
109 " Westinghouse Base Westinghouse Base

"P. & S." China Wall Socket Receptacles.

We make these Receptacles in three different styles as shown. All have backs thus insuring high insulation. We use the same wire connection as is used in our Com-

111 With large back for Thomson Houston Base Ercluded Westinghouse Base Exclamatice Erclusion 114 With small back and screw for Thomson Hous

ton Base. .17 115 With small back and screw for Westinghouse Ваме

Fusible Wall Socket Receptacles.



· Code Word. Discredit Discreet 8839 Oppu, for Thomson-Houston Base Discretion " Westinghouse Base..... Discriminate .17 Discuss 6842 Cleat and Concealed, for Thomson-Houston Base .19 Danald " Westinghouse Base19 8843 Durres 8845 Moulding and Concessed, for Thomson Houston .19 8846 Moulding and Concealed, for Westinghouse Dencun Danb



P. & S. Waterproof Receptacle.



20266 Waterproof Receptacle, for Thomson-Houston Rusully 20287 Waterproof Receptacle, for Westinghouse Base .20 Rossigned



No. 6000.

Edison Key and Keyless Lamp Receptacles-

List No

6000 Iron Stage Box and Receptacle, capacity 50 Excising amperes, each....... 4.59 6001 Attaching Plug for No. 6000, each... 1.50 Excision



Ries' Regulating Sockets.

For Alternating Current Circuits, light can be regulated from dull red to full candle power, and the consumption of candle power controlled accordingly.

For Thomson-Houston Base Lamps.

Code Word	List No	Volts	Candle Power	Price Each.
Acodent	25456	50 to 55	16 to 25	\$3.25
Accombination	25457	50 to 55	32 to 50	4.00
Accommoduble	25458	100 to 110	16 to 25	4.00
Accommodableness	25459	100 to 110	32 to 50	5.00

For Sawyer-Mann Base Lamps.

Code Word	List No	Volts	Candle Power	Price Each
Accommodutely	25460	50 to 53	16 to 25	\$3.25
.lccommodateness	25461	50 to 55	32 to 50	4.00
Accommodating	25462	100 to 110	16 to 2 5	4.00
Accomplication .	25463	100 to 110	32 to 50	5.00

Brunts' Regulating Socket.

Controls the electric light same as gas. Five degrees of light with a positive saving of current when turned

of light with a positive serious of the candle power down.

This Regulating Socket is for 16 candle power Incandescent Lights. It is adapted to direct or alternating currents any voltage from 50 to 118. By the simple turning of Key you raise or lower your light from 2 to 16 candle power and consequently save your current when turned down. This Socket is valuable for the Sick Room, Vestibules and Sleeping apartments.

In ordering please state voltage and base (T. H. or Edison)

Thomson-Houston Base.

Code Word	List No	Volts	Candle Power	Price Fach
Accomplicity	25464	50 to 55	16	\$2.00
Accomplishable	25465	100 to 118	16	2.00
		Edison Base.		
Accomplisher	25466	50 to 55	16	2.00
Accumplishment	25467	100 to 118	16	2.00

(WESTERN ELECTRIC COMPANY.





Weatherproof Sockets.

Type "D." for Shade-Helder.

Code Word.	List No	B E.	No	List Price, Each
Villa ge r			Thomson-Houston Base.	
Vigorous	24488	1105	Westinghouse	

Regular length of wire is 12 inches Special length to special order

The rim at the bottom of the socket is a new feature designed to hold the shadeholder

No. 2A Brush Swan Societ.								
lfu	24490	1113	Brush-Swan	Base,	Key ,			
lfanara -			•	•	Keyless	M.		
utulepay	25402	1116		•	Key Wall	4		
oter				4	Keyless Wall	12		

Stage Receptacle.

The Jaws and Wire Connectors are made in one piece, of heavy cast brass. The face of the Jaws are pure tempered copper, securely fastened. The handle is made of hard wood, appropriate for the purpose. The portion of the ping which enters the jaws is triangular in section, on two faces of, which are secured heavy copper strips. These strips make a contact with the jaws and are also connected with the flexible cable which enters the handle of the ping through the hole in the end.



No. 2002.

-		
Baintologist	20862	Complete
Saintskip	20863	Without plug
Sujene	20864	Plug only

the hole in the end.



Acutes

Attachment Plugs.

Enameled Wood Handle not Fusible.

Solfature



Attachment Plugs

Not Pusible-Wood Handle. With Metal Base.

Code Word.	List No.					List 1	Price.
Crtacean	867	For	Thomson-Houston	n System,	each.	\$	0.25
Cetaceous	1867	••	Westinghouse	**	••		.25
Catic	2867	••	Edison	**	••		.25



 Abscission
 25292
 Attaching Plug for Standard Lump Socket, Porcelain
 30

 Abscission
 25293
 Attaching Plug for T.-H Lump Socket, polished
 30

Attachment Plugs.



Fusible-All Parts Brass and Porcelain.

The metal cover can be removed by giving it a quarter turn; the fuse is then easily inserted.









Receptacle closed in use.





Finatio

No 20861.

No. 262.



No. 20072



 $N_{\rm P}/26 \approx 6$





No. 26008.

The Chapman Receptacle.

Patented May 21, 1895.

The Chapman Receptacle is placed in the wall, base-board or floor. When not in use the lid is closed—the plug being removed—and the face plate is flush, out of the way. All plugs are fused to thirty amperes, and are interchangeable.

Mostern methods require a receptacle of this character placed in the base-board at every point where there is a possibility that current may be required for fan motors, desk lights, electrical heating devices or hospital work. Distance between serve centers of face plate is 33, inches. Size of face plate is 33 x 24 inches.

List No. B E. No. List Free 20859 1108 Complete with lid and plug. \$3.00 20860 1109 " " plug, no lid. 2.35 20861 1110 Chapman Attaching plug only. 1.50 26000 1111 Receptacle only, with lid. 1.50 26001 1112 " " no lid. 1.00

Prices cover light bronze face plates. Special finishes order. Woods Mats for Chapman Receptacles.

The Wooden Mat is furnished singly or in gangs to order, in any wood desired. It offers a convenient device for concenting the broken edges of the plastering made in cutting away for the receptacle.

262 1127 Wooden Mats, single switch, each..... The above price covers the common woods, for rare and expensive woods special prices will be quoted.

Iron Wall Boxes for Chapman Receptacles.

	******	DUA	-3		Ullu	hiiie	•••	Acceptace	C 3.
Philip 100	26002	1118	10	utlet	at one e	nd on	ly	· · · · · · · · · · · · · · · · · · ·	.80
Rest	26003	1227	2	**		"	٠.,	• • • • • • • • • • • • •	.80
K	26004	1228	2	"	**	**	1	at other end	.88
$Rec^{*}e^{ig}$	26005	1229	1	**	at each	end.		• • • • • • • • • • • • • • • • • •	.80
								enamel and are	

guaranteed to withstand an alternating current of 2,000 volts. Distance between series centers is 3.5 liches, adapting it for use with the Chapman Receptacle or my Standard Push Button Switch on the market.

The Chapman Bracket Receptacle.

Adapted for use with any Standard 1 inch Bracket made from 1 inch brass tubing. Regular finish is polisted brass. Special finish to special order. Distance between serve centers of face plate is 3½ inches. Diameter of face plate is 4½ inches.

F 500	26006	1129	acket Receptacle complete with Plug
$T_{J^{\prime}T^{\prime}}$, $T_{J^{\prime}}$,	26007 26008		80. 1129. Bracket Receptacle only. Plug only.

Chapman Attaching plugs, No. 20861 and 2008 are interchanged le and can be used either with No. 20859 or No. 2007.

26009 1182 Dummy Plug for No. 26007...... 1.00 This is merely a wood plug with brass plate, designed to fill the receptacle opening when not in use.

INCANDESCENT SUPPLIES.

MISCELLANEOUS.

7	Code Word.	List No.	Socket	Bushings.
No. 3680.	Anchored	3630	Genuine Hard	Rubber, ‡ inch, per 1,000\$20.00
110. 0000.	Anchores	3631		inch, per 1,000 8.00
			•	
No. 3633.	Anchorite	3632	Genuine Hard	Rubber, 1 inch, per 1,000 30.00
	Anchoring	3633	Composition,	; inch, per 1.000 9.00
No. 3634.	Anchory	3634	Genuine Hard	Rubber, † inch, per 1,000 30.00
	Ancient			j lach, per 1,00012.00
No. 3686.	Anciently	3636	Soft Rubber, p	er 1,000 7.00
	Ancietal	2627	Genuine Hard	Rubber, # inch, per 1,000 30,00
No. 3687.	Anciptal	303/	Genune Hard	Number, 8 men, per 1,000 30.00
No. 5007.	Ometery	2927		and Hard Rubber Fixture Bush



Cord Adjusters.

List Price. 3457 Ball Cord Adjuster, stained cherry, per 1,000....\$7.00 25100 " bluck enamel.... " 11.50

No. 8651.

No. 5559.

3561 Dumb Bell Cord Adjuster, per 1,000...... 8.00

No. 8561.



No. 1387.

Socket Handles.

1337 Two Piece, screw top, per 1,000.... 15.66



No. **8556.**

3556 One Piece, per 1,000......12.50





The Dow Cord Adjuster.

The Dow Adjuster is a thoroughly reliable device for The Dow Adjuster is a thoroughly reliable device for instantly raising or lowering any electric light, and is especially adapted for stores, offices, libraries and hospitals. Can be operated with one hand; is not liable to get out of order, and is much safer than long cords, as the cord when not in use can be rolled up out of the way. In most places the Adjuster can be placed on the cord now in use. It is three inches in diameter and holds twelve feet of cord.

Saddlehorse	20760	Nickel-plated,	per d	loz	1150		 111113	\$20.00
Saddler	20761	Gilt,	**	1,000		1100		18.00

The Disc Cord Adjuster.

It is round, scarce two and a quarter inches in diam-It is round, scarce two and a quarter inches in diameter; it is flat, a thickness of but little more than a quarter of an inch. It is in shape like a spool of small height and large diameter; it is hollow, and in its inside is a well tempered spiral spring. A wire twisted into a peculiar shape, fastens this little device to a lamp cord, In the spool-like groove is wound a cord which passes through the loop, extending from the side wire. Fasters it to the lamp cord, pull this cord out the entire length; this winds up the spring, and while the cord is extended fasten it to the lamp cord. You can then raise your lamp to any desired height. It will stay there until you change it

Smillermof	20762	Each .			*****			annino.	.50
------------	-------	--------	--	--	-------	--	--	---------	-----

Perfection Desk or Music Rack Clamp.

Sold complete, including half shade of opal, red, blue, green or vellow glass or of aluminum.

Crimeful Castlery		Bram, each Nickel, =			3.5
CHOOSE L.B.	0004	2110004		 	 -

In ordering, state kind of socket required.







Shade Holder for Cluster Lights.

Code Word.	List No.		La	. Prin.
Caloria	3618	22	Inch, each	\$0.30
Calorific	3619			.40



No. 3803.

Acme Shade Holder.

Will Fit Any Socket.

Belong	3803	21	Inch.	per gross.	-			
Belonging	3804	31	**			-1-	(4)	15.00



Socket Rings.

American	3197	Hard Rubber Ring for Standard Edison Socket,	
		each	
Amethyst	3198	Porcelain Ring for Standard Edison Socket, each,	.1



No. 2694.



No.	8723,		4	
5		-		
_	_	100	-	

No. 8794

Gas Attachments.

Consorial	8723	Polished Brass, per 100 10.0
Ancient	3635	Composition Fixture Bushing for same, per 1,000, 12.6
Anchery	3634	Hard Robber " " " # 30.0
Censurable	8724	Polished Brass, per 100
Annest	3635	Composition Fixture Bushing for same, per 1,000, 12.0
Anchooy	3634	Hard Hubber " " " " 36.0

No. 250,	Consus Contago	23 9 240	Stamped Brass, not polished, per 100
No. 8071.	Lank	8677	iron Duopod. Tapped ; to ; lnch, per dosen
No. 8878.	Languishmen	ul 8678	Iron Tripod. Per dozen
No. 8879.	Languor	8679	Iron Crowfoot. Per dozen
No. 8680). No. 8681.	Languishing Lantern	8680	Iron Chandelier Loops. Closed, per dozen
E No. mea.	Lanyard Lapdog Lapful	8682 8683 8684	Open, ½ inch, per dozen









Juer Radiant.

.. og Incandescent Lamps.

s material are . Conquess, is applicate of application.

160unee Bottie.

											1	•	-
	bottle	٠.										\$	200
	••												2 9
	••												2 60
	••												2 3
٠.	••												2 0
٠.	••										٠.		23

6-Ounce Bottle

٠.,	1. S. per	bottle													80	
٠.	Amber,	••													.80	
:2	'i ne,	••													50	
23	Green,	••													80	
J 4	Orange,	••													.80	
55	Vonte t.	••													S/a	

Full directions with each bottle.

Frosting Varnish.

or Frosting Incandescent Lamps.

 \mathcal{F} errors no read, is partically narrate solutions applied.

Metal Dipping Cup.

Lo Lacquer Radiant and Frosting Varnish.

The Macallen Solid Mica Insulating Joint.





These Joints have been approved and recommended by the Boards of Fire Underwriters throughout the country, and are recognized by the trade as the standard insulating joint.

All our joints are tested electrically to 2500 volts, and all our combination joints are tested under high atmospheric pressure, and we guarantee them not to leak gas.

In Composition Brass.

			Combination.
Cormorant	1001	₽x i.	each\$0.50
Corn	1002	₽x 1.	"
Cornes	1003	∦x ∦.	··50
Cornel	1004	∮x ∤.	· · · · · · · · · · · · · · · · · · ·
Cornelis	1005	ł≖ ł,	· · · · · · · · · · · · · · · · · · ·
Cornelius	1005	iz i.	"
Corner	1007	j≖ j.	·"
Cornel	1006	ŧ≖ ŧ.	··· 1.00
Cornetcy	1006	ŧ≖ ż.	· · · · · · · · · · · · · · · · · · ·
Cornish	1010	ŧ≖ ŧ.	· · · · · · · · · · · · · · · · · · ·
Cornucopia	1011	ŧ≖ į.	··· 1.00
Corollary	1012	ŧ× ŧ.	· " 1.00
Corons	1013	1 x j.	" 1.60
Coronal	1914	1 x 1.	· · · · · · · · · · · · · · · · · · ·
Coronary	1015	1 x1,	· · · · · · · · · · · · · · · · · · ·
Coroner	1616	1½x1,	··
Corporal	1617	14x14.	"
Corporally	1018	ĺįziį,	· · · · · · · · · · · · · · · · · · ·
Corporate	1619	3 x3,	"····· 6.60
		Larg	er sizes made to order, special prices.
			Blank.
Corporation	1021	AT 1	each
Corpulation	1022	4× 1.	
Corpulant	1023	έz έ.	
Correction	1024	ŧπ i.	
Conducting	1025	4x 1.	
Conduction	1025	4x 4.	"
Conductor	1027	ŧπ ŧ.	.66%
Come	1828	4x 4.	
Contab	1029	Az ż.	" 1.00
Confederacy	1030	ex e.	" l.00
Confederate	1031	Ax i.	1.00
Confederating	1032	đx đ.	1.00
Confederation	1033	1 x 4.	1.60
Confer	1034	1 x 4.	
Conference	1035	1 x1.	"
Confee	1030	lixi.	"
Confessably	1637	14x14.	
Confessing	1038	lixli.	" 4.00
Confessor	1030	2 x2,	6.00
•		Large	r sizes made to order, special prices.
		_ •	

The Macallen Solid Mica Insulating Joint.

IN MALLEABLE INCH.

Code Word.	List No.		Combination.	t Price
Confinctes	1041	8x 1.	each	
Confinement	1042	Ax i.	*	.45
Confiner	1043	8x 4.	*	.45
Confirm	1044	įx į.	*	.64
Confirmable	1045	έx έ.		.60
Confiscate	1046	ix t.	*	.64
Configuating	1047	ix i.		.64
Confidant	1048	2× 4.		.90
Confide	1049	£x ↓.		
Confidence	1050	1× 1.	••	.90
Confidently	1051	1 x i.	**	
Confiding	1052	1 x 1.	*	1.45
Confine	1053	1 x1.	*	1.45
·			• • • • • • • • • • • • • • • • • • • •	1.40
			Blank.	
Conform	1061	₽x. 1.	each	.43
Conformable	1062	₽x ł.	**	.45
Conformation	1063	is t.	**	.45
Conformed	1064	4x 4.		.60
Conforming	1065	4x ł.		.60
Conformist	1066	4x 4.	"	.60
Conformity	1067	4× 4.	"	.60
Configrator	1068	žx ž.	*	.90
Conflagration	1069	ž× į.		.90
Conflict	1070	1× 1.	"	.90
Conflicting	1071	1 x i.	**	1.45
Confluence	1072	1 x 1.		1.45
Confluent	1073	1 x1.		1.45
		Electro	olier or Separable Joint.	
		I	N MALLEABLE IRON.	
Confound	1101		each	.50
Confounded	1102	# X 1.	··	.50
Confounding	1102	1 × 1.	"	.50
Confront Confront	1103	g x g,		



Confinending	1103	∦ × ∦.	••								٠.	٠.		 	٠.	 	٠.				.50
Confront																					
Confrontant	1105	1 x 1.	••											 							.66
Confrontation	1106	1 x 4	••													 		٠.	 ٠.		.66
Confronted	1107	4 x 4.	••											• .	٠.	٠.,			 		.86
Confronting																					
Confrontment	1111	1 x 1.	••				٠.			٠.			٠.			 			٠.	1	.06
				_																	
		12	٠.	OMP	* 05	t T	ю	٨	1	Bu	ı	٠.									
							_	_	_												

Confuse	1801	×	ł.	rac)	h			 		٠.						٠,		 	٠.		٠.		
Southwest	1082	į x	ł.	••							٠.		٠.		,	٠.							
nd ondly	1083	ł٧	ŧ.	••		 	٠.			٠.	٠.												
of undertuen	1084	1	į.	••														٠.				٠.	
William .	1085	1 x	į.	**		 							٠.		٠,					:		٠.	
of then	1086	ł x	į.	••		 	٠.			٠.			٠.					 			٠.		
	1087	ł x	ě.	••						٠.			٠.					 					
Safstation .	1090	ž x	į.	••			٠.					٠.	٠.				. ,	 			٠.		
Secrete	1091	ž x	ä.	••		 	٠.					٠.		٠.				 					



The Macallen Solid Mica Bracket Joint.

In Malleable Iron

			Combination.	
Code Word.	List No.		•	List Price.
Confuted	1141		ach	
Confuting	1142	ł×ł.	·	
Congeal	1143	ł × ł.	·	
Congealing	1144	} x ∤,	"	
Congelation	1145	∦ × ∤.	"	
Она дскет	1146	1 × 1.	"	
			Blank.	
Owgeneric	1151	4 x 1. c	sch	36
O ngenial	1152	∦x∤.	**	36
Congenital	1153	∦ × ∦,	**	36
Congest	1154	∦× ŧ,	***************************************	50
Congestible	1155	į≖į,	"	50
Congestion	1156	∦ × ∦.	*	50
			Combination.	
Congression	1121	4 x 4. c	each	
Congruent	1122	₽׳.	**	
Conically	1123	4 × 4.	**	40
Conifer	1124	1 × 1.		
Coniform	1125	į×į,	**	
Conjecture	1126	∦ x ∦.	"	54
			Blank.	
Conjoin	1131	∦ x 1, e	ach	
Conjoint	1132	# = i.	·	40
Conjointly	1133	∦ × ₹.	"	
Conjointness	1134	} x },	"	
Conjugal	1135	į x į.	··	
Conjugate	1136	į × į.	·	54



no. 8790,

"P	. હ	S."	China	Insu	lating	Joi	nt
----	-----	-----	-------	------	--------	-----	----

Cenobile	8790	∦x in.	, 21 in.	diameter, each	.2
Cenobitie	8791	1 x 1 "	ł "	next to wall, 21 in, diameter, each,	.2
Cenotaph	8792	1x1 "	1	21	.2
C:nsor	8793	1 x 1 "	2 1 "	diameter, each	.2
Casket	8794	1×1"	ł "	next to wall, 24 in, di meter, e o h,	.3
Carpian				21	.3
Casenck	8796	∦x} "	4 "	21	.3
Castinet	8797	4×4 "	2}	diameter, each	.3
Castoway	8798	1×1"	1 "	next to wall, 3 in. diameter, each,	.3
Onete	8799	1×1"	· • "	. 8	.3
Castellan	8800	łxł "	3 "	diameter, each	.3

-cu Fuse Wire and Ribbon.

	F	use W	ire			
	Mar.	1'area 1 -		-td	-	2.5
4 4	10			nche-	2	4.4
1422	17		15	44	7.7	52.75
. 234	20	1	L			
. 1355	23	11	14			23
. 1356	27	2	14		4 -	:
:0357	27	3	1.		1.7	:.
20358	٠.	4	14	-4		: 🔀
29333	Ç.	5	2	**	-55	. ::
20:53		ű.	2	-	187	3.5
20 %	4.4	7	2	••	:+	5:
20362	47	8	2	-	12	90
20353	54	9	2	4-	265	80
20364	55	19	2			50
.0363	62	12	.5		:	50
.0355	68	14	3		6.	82
20367	70	15	3		52	73
20363	7.3	16	3		474	.75
20369	75	14	3	••	4,	75
20370	×i;	20	\$		1.41	.75
20372	(4)	25	4	••	:.2	.75
20373	100	30	1	••	25	.75
20374	110	37	4	44	222	.75
20375	122	\$-1	1		1~	75
20376	120	45	4		17	75
20377	147	50	5	**	12.5	75
20379	1141	ñJ	5		10.0	.70
20380	172	70	5	••	9.00	70
20331	178	75)	5		5 3	.70
20382	1040	~,	5		7.5	-70
20383	1995	(n)	5		6.7	.70
20384	225	1-81	5	••	5.5	.70

is on on left, speaks, 40 to 100 Angle in lastes, on 2 the speaks.

Tested Fuse Ribbon.

	121.5		Size State best	F == (1: •
20385	5.	÷	.46 x (47	12.5	\$0.65
25.14	6.7	1	14 x 042	11 3	65
20336	77.	1	7 × 943	9.7	-65
15115	100	1	66×-045	7.00	65
10 (88	1000	1	38 X 1578	7.0	.65
6	147	1	14 x 1002	5.2	60
0:34	1.25	ŧ	Sec. 30.00	1.5	.60
20.140	••	:	54×1002	4 3	.60
16:31	177	í	$60 \cdot \chi > 95$	3 3	.60
	٠.	1	75 () (4	3 0	.60
10 (42	2 *	4	57 () (4)	26	-60
1,4 13	22.	1	3 x (5.6)	9 2	.60
0.43	27.4	١.	a 0 × 195	1.5	.60
44.9	:		1 > x = 15	1.4	.60
1,6 4	1	4 -	Total 10	1.1	.60
0.45	*	1	1.05 x 25	.85	.60
. 20		:	1.5 x 18	75	.60

Paraishes is east of any length,

Shawmut Tested Fuse Links. For Resettes.

7		
J		
	No. L	

No. 1 B Terminal. 1, 2, 3,5 Ampere. Slote & Inch, 14 inch centers. \$21.56

Fer S. M. or Edison Main or Branch Blocks.



For Edison /Tain or Branch Blocks.

14 inch centers.....



Por S. M. Blocks and Fused Switches.

Same Terminal as above, 25, 30, 35, 40, 50 Amperes, 24 inch centers. 50:00

For S. M. Blocks and Fused Switches. No. 4 A Terminal. 60, 75, 90 Amperes Slots & inch, 24 inch centers 55:00

For Fuse Blocks and Switch Boards. No. 5 A Terminal, Slots # inch, 24 inch centers, 100, 125, 150,

No. 5 A Terminal, Slots # inch, 24 inch centers, 100, 125, 150, 175,	bet June
	\$112.50
No. 6 A Terminal, Slots & inch, 2) inch centers, 200, 225, 250, 275	
amperes	135.00

165.00

Prices are based upon the TREMISCO, used, and not upon the carrying capacity. An additional charge will be made for links over 4 inches between centers, based upon the extra metal used and the difficulty in manufacture. In ordering, find the exact cut of the Fuse Link re-quired, and then specify

amperes 300, 350, 400 amperes 500, 500 amperes 700, 800 amperes

First. Safe carrying capacity.

SECOND. Terminal number, c. y., 1 B, 24 B. etc.

THIRD. Distance between centers of binding posts.

Nork.—The fusing point of Shawmut Fuse Links is about 30 per cent, above safe carrying capacity.



Sawyer-Man Flat Lead Links.

		Center	Amperes		
Roynish	20396	Id inch.	10 25		
Roysterer	20397	5 1	25 (0)		
Rugatereror	20398	21 "	10 20		45.00
Routelet	20399	2} "	50 60		50.00
Roytish	20400	24 "	r¥). 80		60.00
Rut	20401	21 "	80 125		100.00
Rubadub	20402	24 "	125-178		120.00
Rubata	20403	24 "	175-225	••••••	150.00
Rubadub Rubata	20402	24 "			



No. 8983.

Lacquer Radiant.

For Coforing Incandescent Lamps.

The advantages of this material are: Cheapness, richness and permanency of color, and simplicity of application.

16Ounce Bottle.

Code Nord.	List No.													u	4	h
Centennial	8983	Ruby, per	bottle	٠.										. (,	2.0
Centering	8984	Amber,	••	٠.								٠.				2.00
Centerimal	8985	Blue,	••	٠.				٠.								2.0
Centigrade	8986	Green,	••													2.0
Centima	8987	Orange,	••			٠.					 					2.0
Centipede	8988	Violet,	••	٠.				٠.			 ٠.					2.0

6-Ounce Bottle.															
Mantau	14850	Ruby, per	bottle	٠.,			٠.				 ٠.	٠.			
Manoka	14851	Amber,	••								 		٠.		
Vanteno	14852	Blue,	••								 				
Vanton	14853	Green,	••								 				
Tanrille	14854	Orange,	••								 				
Ч аріт і	14855	Violet,	••								 				

Full directions with each bottle.



No. 8080-

Frosting Varnish.

For Frosting Incandescent Lamps.

Contains no acid, is perfectly harmless and easily applied.

 Centenary
 8989
 Per 18-oz. bottle.

 Centallo
 14856
 Per 6-oz. bettle.



No. 8990.

Metal Dipping Cup.

For Use with Lacquer Radiant and Frusting Varnish.

Centeur 8990 Each.....

The Macallen Solid Mica Insulating Joint.



tered July 31, 1884.



These Joints have been approved and recommended by the Boards of Fire Underwriters throughout the country, and are recognized by the trade as the standard insulating joint.

All our joints are tested electrically to 2500 volts, and all our combination joints are tested under high atmospheric pressure, and we guarantee them not to leak gas.

In Composition Brass. Combination.

Cormorant	1001	∦x į,	each\$	0 .50
Corn	1002	∦× ł.	"	.50
Cornes	1003	1× 1.	.,,	.50
Corned	1004	ł≖ ł.	"	.66%
Cornelia	1005	ł× ł,	"	.66%
Cornelius	1006	}x ∦.		.66%
Corner	1007	jx j,	"	.66%
Cornet	1008	ŧ× į,	*	1.00
Cornetcy	1009	ŧ× ŧ,	· · · · · · · · · · · · · · · · · · ·	1.00
Cornish	1010	ŧ× ŧ,	· · · · · · · · · · · · · · · · · · ·	1.00
Cornucopia	1011	₹x å,	*	1.00
Corollary	1012	ŧ× ŧ,	· · · · · · · · · · · · · · · · · · ·	1.00
Corona	1013	1 x 1,	· · · · · · · · · · · · · · · · · · ·	1.60
Coronal	1014	1 x 4,	· · · · · · · · · · · · · · · · · · ·	1.60
Coronary	1015	1 x1,	· · · · · · · · · · · · · · · · · · ·	1.60
Coroner	1016	1{x1,	· · · · · · · · · · · · · · · · · · ·	2.20
Corporal	1017	14x14,	· · · · · · · · · · · · · · · · · · ·	2.20
Corporally	1018	13x13,	"	4.00
Corporate	1019	3 x3,	er sizes made to order, special prices.	6.00
		Ī		
Corneration	1021	1v 1	Blank.	50
Corporation Curpulence	1021	∦x },	Biank.	.50 .50
Corpulence	1022	4× 1,	Biank.	.50
Corpulence Corpulent	1022 1023	4x €.	Blank.	.50 .50
Corpulence	1022 1023 1024	∦x ₹, ∦x ₹, ∤x ₹.	Blank.	.50 .50 .66%
Corpulence Corpulent Corrective	1022 1023	\$x 1, \$x 1, \$x 1, \$x 1,	Blank.	.50 .50 .66%
Corpulence Corpulent Corrective Conducting	1022 1023 1024 1025	#x 1, #x 1, #x 1, #x 1,	Blank.	.50 .50 .66%
Corpulence Corpulent Corrective Conducting Conduction	1022 1023 1024 1025 1026	\$x 1, \$x 1, \$x 1, \$x 1,	Blank.	.50 .50 .663 .663
Corpulence Corpulent Corrective Conducting Conduction Conductor	1022 1023 1024 1025 1026 1027	#x #, #x #, #x #, #x #, #x #,	Blank.	.50 .50 .665 .665
Corpulence Corpulant Corrective Conducting Conduction Conductor Cone	1022 1023 1024 1025 1026 1027 1028	#x ±, #x ±, #x ±, #x ±, #x ±, #x ±,	Blank. each	.50 .50 .663 .663 .663
Corpulence Corpulent Corrective Conducting Conduction Conductor Cone Confab	1022 1023 1024 1025 1026 1027 1028 1029	8x 8, 8x 8, 1x 8, 1x 8, 1x 8, 1x 1, 8x 1, 8x 1,	Blank. each	.50 .50 .66% .66% .66%
Corpulence Corpulent Corrective Conducting Conduction Conductor Cone Congab Confaderacy	1022 1023 1024 1025 1026 1027 1028 1029 1030	#x #, #x #, #x #, #x #, #x #, #x #, #x #, #x #,	Blank.	.50 .50 .66% .66% .66% 1.00
Corpulence Corpulent Corrective Conducting Conduction Conductor Cone Cone Confab Confaderacy Confederate	1022 1023 1024 1025 1026 1027 1028 1029 1030	#x #,	Blank. each	.50 .50 .665 .665 .665 1.00 1.00
Corpulence Corpulent Corrective Conducting Conduction Conductor Cone Confab Confabracy Confederate Confederate Confederating	1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032	#x #.	Blank. ench	.50 .50 .66% .66% .66% 1.00 1.00 1.00
Corpulence Corpulent Corrective Conducting Conduction Conductor Cone Confederacy Confederacy Confederation Confederation Confederation	1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033	#x #, #x #, #x #, #x #, #x #, #x #, #x #, #x #, #x #, #x #,	Blank, each	.50 .50 .665 .665 .665 1.00 1.00 1.00 1.00
Corpulence Corpulent Corrective Conducting Conduction Cons Cons Confederacy Confederate Confederation Confederation Confederation Confederation Confederation Confederation	1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033	# # # # # # # # # # # # # # # # # # #	Blank. each	.50 .50 .66% .66% .66% 1.00 1.00 1.00 1.60 1.60 1.60 2.20
Corpulence Corpulent Corrective Conduction Conduction Conductor Cons Confederacy Confederatus Confederation Conference Conference Conference Confeseediy	1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035	#x #, #x x x x	Blank. ench	.50 .50 .665 .665 .665 1.00 1.00 1.00 1.00 1.60 1.60
Corpulence Corpulent Corrective Conducting Conduction Conductor Confe Confed Confederate Confederate Confederation Confer Confederation Confer Conference Confese Conf	1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036	#x #; #x #; #x #; #x #x #; #x #x #; #x #x #; #x x x x x x x x x x x x x x x x x x x	Blank, each	.50 .50 .66% .66% .66% 1.00 1.00 1.00 1.60 1.60 1.60 2.20
Corpulence Corpulent Corrective Conduction Conduction Conductor Cons Confederacy Confederatus Confederation Conference Conference Conference Confeseediy	1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036	#x #, #x x x x	Blank. each	.50 .50 .66% .66% .66% 1.00 1.00 1.00 1.60 1.60 2.20 2.20

The Macallen Solid Mica Insulating Joint.

IN MALLEABLE IRON.

			Combin	ntion.		
Code Word.	List No.		_			Lint Price.
Confineless	1041				• · · • • • • • • • • • • • • • • • • •	
Confinement	1042	₹x },			. 	
Confiner	1043	ŧ× ŧ.			· · · · · · · · · · · · · · · · · · ·	
Confirm	1044	ŧ≖ ŧ.		• • • • • • • • • • • • • • • • • • •		
Construable	1045	łx ∤.				
Conflocate	1046	∮≖ #.		• • • • • • • • • • • • • • • • • • •	. 	
Conflocating	1047	∦x },			• • • • • • • • • • • • • • • • • • •	.01
Confident	1048	ŧ× ŧ.	"	• • • • • • • • •	 .	
Confide	1049	ŧx į,		• · · · · · · · · · · ·		🕊
Confidence	1050	ŧx ŧ,		•••••		9 6
Confidently	1051	1 x 3,		· • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	1.45
Considing	1052	1 x §,				1.45
Confine	1053	1 x1,	*	 		1.45
-						
			Blan			
Conform	1901	∦¥. ‡,			• • • • • • • • • • • • • • • • • • • •	
Conformable	1062	{x ∤,		· · · · · · · · · · · · · · ·	. 	
(Information		ł× ł,		••••		
Conformed	1064	ŧ× ŧ.			. 	
Conforming	1065	4× ₹,		.		
Conformist	1066	ix i.			• • • • • • • • • • • • • • • • • • •	
Conformity	1067	}x },			• • • • • • • • • • • • • • • • • • • •	.6 4
Confiscator	1068	[x].		• • • • • • • • • • • • • • • • • • • •	• • · · · • • • • • • • •	. ,9
Conflugr ati on		ŧx į.		.	. .	
Conflict	1070	ŧx ŧ,				
Conflicting	1071	1 x j,		. 		1.45
Confluence	1072	1 x §.	•		. 	1.45
Confluent	1073	1 x1.	••		. 	1.45
		Electr	lier or Se	parable Jo	lat.	
				_		
		1	N MALLEAR	LE IRON.		
Confound	1101	8 x 1.	ach		• • • • • • • • • • • • • • • • • • • •	50
Confounded	1102	4 x 1.			• • • • • • • • • • • • • • • • • • • •	
Confounding	1103	4 × 4.			• • • • • • • • • • • • • • • • • • • •	
Confront	1104	1 × 1.				
Confrontant	1105	1 × 1.			· · · · · · · · · · · · ·	
Confrontation		1 × 1.				
Confronted	1107	4 × 4.			• • • • • • • • • • • • • • • • • • •	
Confronting	1110	4 × 4.			• • • • • • • • • • • • • • • • • • •	
Confrontment		1 × 1.			· • · · · • · · · · · • • · · · · · · ·	
CONTINUENT		z * \$.		· · · · · • • · · · · •	• • • • • • • • • • • • • • • • • • • •	1.00
		I:	COMPOSITI	ON BRAM.		



No. 1101.



The Macallen Solid Mica Bracket Joint.

IN MALLEABLE IRON

	-		
	c	ombination.	
Code Word.	List No.	•	List Price.
Confu lcd	1141 # x 1. cach		
Confuting	1142 ł×ł. "	• • • • • · · · · • • • • • • • • • • •	
Congeal	1143 { x { . "	. • • .	
Congoaling	1144 izi, "		
Congelation	1145 ł x ł. "		
Googener	1146 ixi, "		50
		Blank.	
		Blank.	
Congenerie			
O-ngenial	1152 ł×ł, "	· · · · · · · · · · · · · · · · · · ·	
Congenital	1153 { x {, "		36
Congest	1154 1x1, "		50
Congestible	1155 {x}, "	• • • • • • • • • • • • • • • • • • • •	50
Congestion	1156 i x j, "	• • • - •	50
		ombination.	
Congression	1121 4 x 1, each		40
Congruent	1122 4 x 1. "		40
Conscally	1123 4 x 4. "		40
Conifer	1124 +x+. "		54
Coniform	1125 1 x 1. "		54
Conjecture	1126 +x 1. "		54
	-	Blank.	
Conjoin			
Conjoint	1132 #x ł. "	• · · · • • • · · · • • • • • • • • • •	
Conjointly	1133 🛊 x 🛊, "		
Conjointness	1134 ‡×į, "		
Conjugal	1135 ł x ł, "		
Conjugate	1136 } x #, "		

No. 8790

"P. & S." China	Insulating	Joint.
-----------------	------------	--------

(Imobite	8790	i x	1	in.,	21	in.	diameter, each	.27
('a nobitic	879 I	1×	ł	••	ŧ	••	next to wall, 21 in, diameter, each,	.27
(Invitaph	8792	į,	1	••	2	"	21	.27
'nnor	8793	į,	: }	••	21	• • •	diameter, each	.27
Canket	8794	į,	ŧ	••	ł	••	next to wall, 2} in, diameter, each,	.33
Curpian							21	.33
l'amerk	8796	ı ×	ŧ	**		••	21	.33
astinet	8797	# ×		••	21	••	diameter, each	.33
Cautoway	8798	1 2	i	• •	1	••	next to wall, 3 in diameter, each,	.38
Caste	8799	i x	ŧ	**	ŧ	••	. 3	.38
Cartellan	8800	4 1	i	••	8	••	diameter, each	.38



Tested Fuse Wire and Ribbon.

Fuse Wire.

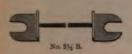
Code Word.	List No.	Mila	. Салту.Сар . Алар.	;	eth.	D.	het p
Abaisance	25113	10	ž.	14 ir	ches	2700	Special
Roundshoulder	20352	17	ě	1	4	960	\$2.75
Roundtrode	20354	20	1	1+	4	670	1-10
Roundtray	20355	23	14	14	"	510	1.05
Ronp	20356	25	2	1	*	430	1.05
Rousant	20357	27	3	1+	"	370	1.00
Rouse	20358	30	4	11		300	1.00
Rouser	20359	35	5	2	64	220	1.00
Rousing	20360	38	6	2	4	185	.85
Rousingly	20361	44	7	2	44	140	.85
Roust	20362	47	8	2	4	120	.80
Rout	20363	54	9	2	4	93	-86
Route	20364	58	10	2	4	80	.80
Routine	20365	62	12	3	4	70	.80
Routonsly	20366	- 69	14	3	44	6 0	-80
Ruce	20367	70	15	3	"	52	.75
Rocer	20368	73	16	3	4	49	.75
Rocing	20369	78	18	3	4	43	.75
Rotingly	20370	86	20	4	4	36	.75
Recingues	20372	90	25	4		32	.75
Rovingshot	20373	100	30	4	44	26	.75
Roce	20374	110	35	4	*	22	.75
Roscable	20375	122	40	4	*	18	.75
Rotantier	20376	126	45	4	*	17	.75
Routbout	20377	147	50	ō	"	12.3	.75
Roadyish	20379	160	60	5		10.3	.70
Rocel	20380	172	70	5	4	9.0	.70
Restru	20381	178	75	5		8.3	.70
Roder	20382	190	80	3	•	7.5	·70
Rogett	20383	196	90	5	4	6.7	.70
Reschiguagy	20384	220	100	5	44	5.5	.70

12 to 35 Amp. inclusive, on 1 lb. spools. 40 to 100 Amp. inclusive, on 2 lb. spools.

Tested Fuse Ribbon.

		Capacity Amperes.	Length in in-	Bize in inches.	Feet per lb	l'rice per la
Reached.	20385	30	4	.36 x .047	12.5	\$0.65
Abecser	25114	60	4	.44 x ,042	11.3	.65
R. aport	20386	75	4	.50 x .043	9.7	.65
Abalia nate	25115	90	4	.66 x .045	7.0	.65
Rega	20388	100	4	.38 x .078	7.0	.65
Abdie notion	25116	115	4	44 x .092	5.2	.60
Rogalet	20389	125	4	.50 x .095	4.5	.60
Rogations	20390	150	4	.53 x .092	4.3	.60
Royalist	20391	175	4	.66 x .095	3.3	.60
Abard	25117	190	4	.75 x .094	3.0	.00
Rogeries	20392	200	4	.87 x .093	2.6	-00
Abandoned	25118	225	4	1.0 x .095	2.2	.00
Royally	20393	250	41	1.0 x .113	1.8	.00
Rogalty	20394	300	41	1.0 x .15	1.4	.60
Abrodonie	25119	4cm)	4+	1.0 x .19	1.1	.60
Roger	20395	5(#)	41	1.25 x .20	.85	.60
Along tomant	25120	65(31)	4 }	1.5 x .18	76	-60

Furnished in coils of any length,







For Edison Main or Branch Blocks. For S. M. Blocks and Fused Switches. Same Terminal as above, 25, 30, 35, 40, 50 Amperes, 25 inch centers. 50.00 For S. M. Blocks and Fused Switches.

Shawmut Tested Fuse Links. For Rosettes. No. 1 B Terminal. 7, 2, 3,5 Ampere. Slots & Inch, 1) inch centers. \$21.56 For S. M. or Edison Main or Branch Blocks.

										Lint Price
No. 5 A Terminal										
200 ampere										\$112.5
No. 5 A Terminal	Slots 4	inch,	2+ incl	cent	ers,	200,	225,	250,	275	
amperes										135.0
300, 350, 400										165.0
500, 600 am	peres									200.0
700, 800 am	DOTOR									250.0

No. 4 A Terminal. 60, 75, 90 Amperes Slots & inch, 24 inch centers 55.00

Prices are based upon the TERMINAL used, and not upon the carrying capacity. An additional charge will be made for links over 4 inches between centers, based upon the extra metal used and the difficulty in manufacture. In ordering, find the exact cut of the Fuse Link re-quired, and then specify

First. Safe carrying capacity.
Second. Terminal number, i. yn 1 B, 2) B. etc.
Third. Distance between centers of binding posits.

NOTE.—The fusing point of Shawmut Fuse Links is about 30 per cent, above safe carring capacity.



Sawyer-Man	Flat	Lead	Links.
Dist between			

		Center	Amperes.		
Rogerich	20396	II luch-	10- 25	Similar	25.00
Hoysterer	20397	Th	25- 40		40.00
Rogsterror	20398	21 11	40- 50		45.00
Roytelet.	20399	73 "	50- 60	***************************************	50.00
Highlah	20400	21 "	rio- 80	ALTERNATION OF THE PARTY OF THE	60.00
Rut	20401	Eb H	80-125		100.00
Robertab	20402	2à H	125-175	***************************************	120.00
Rabuta	20403	25 "	175-225	***************	150.00



Shawmut Copper Terminals,

Cede Word.	List No.	Number.		mon Capacity	List No.
Rubbinge	20404	1		40	F-31
Rubber	20405	2		30	B.4
Rubbidge	204053	2 B		30	
Rubbish	20-107	2		1901	12.6
Rubbinhly	20408	4	o'Marrie	100 man	15.0
Rubble	20409	11 B	(Char	100	13-2
Rubbleatone	20410	3	****	200	150
Hubblecall	20411	04 or 6		200	38.9
Rubblework	20412	14 or fixhick		1800	613
Rubbity	20413	8		1000	129.0
Rubellinous	20414	10 C	OHIO.	1500	160-0
Rubefurient	20415	T. H. Ry		150	29.0

Shawmut Specially Designed Fuses.

T. IL I	RAILWAY	Lanks.	Gans	RATOR F	UKEA.	En.Usp	ENGRIUS	» Yess
Amp.	Typu.	Prices per junio.	Amp.	Yerm(nel	Priis per 100	Aurp.	Termon	Print per III
35 50 75 80 100	Round	\$40.00 45.00 50.00 50.00 50.00	500 600 700 800 900	No.8 A.	\$30,00 30,00 35,00 15,00 40,00	900 900 900 1000	No.5tA	BESSE BESSE
100 150 200	Flat	50.00 60.00 75.00	1000	-	40,00	300 400 500 600 700	No.10C.	30 00 30 00 35 00 40 00 40 00
Amp	Terminal	Prine per 160.	Amp.	Terminal	Pyles per 100.	900 900 1000 1200		40.00 30.00 30.00 65.00
100 150 200 250 300 350 400	No. NA	\$25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00	150 200 250 300 400 500	No.5+A,	15,00 18,00 18,00 20,00 20,00 20,00			

4	00 "	25,00	500		20,00	
						sup capacity, 1
5 A	**	500 "	5 4	-	20 to 60	*



20 Ampere Type.

Cutler-Hammer Rheostats.

MOTOR STARTING BOXES.

With Automatic Release and Circuit Breaker.

This device is a combined Starting Box and Chronic Breaker.

Should the motor become averloaded the lever immediately files back, inserting the resistance of the files at and then opening the circuit warment wears. No carbons for the final break are therefore accounty.

The combined device not only protects the mone from Short Circuit, Ground and Overload, but also protects the motor-from interrupted current and upon field gircuit.



Motor Starting Box with Automatic Release,



Motor Starting Box with Magnetic Release.



Motor Starting Box with Magnetic Release.

Cutler-Hammer Rheostats.-Continued.

Motor Starting Boxes.—Continued.
With Automatic Release and Circuit Break

Horse Power.	125 Volts.	240 Volta.	500 Volts
Pto 3	5 25.00	\$ 25,00	\$ 25.00
S	37.00	37.00	37.00
736	55.00	42.00	42,00
10,	58,00	45,00	45,00
15	65,00	60.00	52.00
20	70.00	65.00	58,00
25	85.00	70:00	63.00
30	95.00	85.00	75.00
35	105.00	90:00	90,00
40	115.00	100.00	100.00
50	140.00	115.00	115.00
75	220.00	185.00	175.00
100	280.00	250.00	225.00
150	375.00	335.00	300.00
200	480.00	440.00	380.00

Motor Starting Boxes.

With Magnetic Release.

fire proof; built entirely of marbleized slate,

leave the resistance in circuit and burn out

to motor when supply of current is cut off turned on again. . . to armature and commutator due to an

and reliable. Only one moving part-ard of Fire Underwriters. ive horse power, voltage and make of motor.

Horse Power.	125 Volts.	240 Volte.	500 Volts.
14 to 3	\$ 15.00	\$ 15.00	\$ 15.00
5	25.00	25.00	25.00
736	40.00	30,00	30,00
10	43,00	33.00	33,00
15	50,00	45.00	40.00
20	55,00	50.00	45,00
25	65,00	55.00	50,00
30	73.00	65.00	60,00
35	80.00	70.00	70.00
40	90.00	80.00	80.00
50	115,00	100.00	100,00
Warner	190,00	165.00	150.00
(00	250,00	995.00	200.00
150	325.00	300.00	275.00
200	420.00	400.00	350,00

SPECIAL RHEOSTATS.

Special Rheostate the following information is

for which the Rhoustat is to be used.

n current to be carried.

time the current will be flowing through
Rhoustat.

e Rhoostat,
m cerrent to be used,
sistance to be required,
of the current,
ower or K.W. of the motor or dynamo used,
r of steps or divisions necessary on the front

orided with the exact knowledge of just what the expected to do, many of the above points can be. By giving explicit and full information prompt be obtained.



Motor Starling Box, with Automatic Release. 300 Ampere Front.



Combined Motor Starting Box and Speed Regulator.

Cutler-Hammer Rheostats.-Continued.

COMBINED MOTOR STARTING BOX AND SPEED REGULATOR.

Automatic Release from Every Point.

Our Motor Speed Regulators, with Automatic Release, rebine in one device all the advantages and protections of the by our Automatic Release Motor Starters, in addition the great convenience of a Speed Regulator.

The Automatic Release acts from every contact point, firm locking the arm in position at any desired speed, and upon fall are of the current, or the opening of the field circuit, automatic ally releases the arm, permitting it to return to the fall of position.

In ordering give Horse-power, Voltage, Normal Sperd, and make of Motor. Also, lowest speed desired and kind of machinery attached to the motor. Prices are based on 50 per cent, reduction of speed at full load

	120 V	120 VOLTS.		OLTS.	500 VOLTS.		
H.P	With Autom'tic Release.	Without Autom tic Release.	With Automitic Release.	Without Autom'nc Release.	With Autom the Release.	Without Lating Vi- Ratings	
36	£ 22.00	\$ 15.00	\$ 22.00	\$ 15.00	\$ 22,00	g. 15.00	
1 36	28,00	18.00	28,00	18,00	28,00	18,00	
22	42.00	30,00	42,00	20.00	42.00	30:00	
3	52.00 47.00	55.00	67.00	40.00	67,00	40,00 55,00	
7.66	85.00	70.00	85.00	70.00	85.00	70.00	
10	100.00	85.00	100,00	N5.00	100,00	85.00	
15	155.00	135.00	120.00	105.00	120,00	105,00	
25	185.00	160.00	175.00	150.00	175.00	150.00	
30	215.00	185.00	205 00	180.00	200.00	175.00	
35 40	250 00	245.00	240.00	205.00	235.00	225 00	
50	360.00	300,00	340.00	200.00	325.00	275.00	
75	500.00	437,00	450.00	400.00	425.00	375,00	

Reversible Controllers.

For either Series or Shunt Wound Motors.

Adapted for Traveling Cranes. Locomotive Turn Tables, Conveyors, Swinging Bridges, Rolling Mills, Holsts, Unloading Vessels,

and all kinds of Electric work where the Motor is started and stopped, and its direction of rotation is changed a great many times a day

Renewable Carbon Brushes and Segments, Non-Sparkling, Compact and Indestructible.

н. Р.	VOLTS.			DIMEN	Weight.		
	110	220	500	Height.	Width.	Depth.	lbs.
3 5 74 10 15 20 25 30 40 60	\$120,00 150,00 180,00 200,00 220,00 240,00 250,00 280,00 300,00	\$120,00 150,00 180,00 200,00 220,00 230,00 240,00 250,00 275,00	\$120.00 150.00 180.00 200.00 220.00 230.00 240.00 250.00 275.00	30 30 30 36 36 40 40 40 40	16 16 16 18 18 18 18 20 20	14 16 18 18 18 18 18 18 18	150 175 200 250 275 300 350 350 350
75	360.00	300.00	300.00	40	29	99	400

Depth includes projection of handle.

These Controllers are designed to start and stop a Motor a great many times a day, and to regulate the speed of the motor during a time not to exceed a minute or two. They are not designed to regulate the speed of a Motor which runs continuously for hours, but will not burn out even if abused to this extent.

In ordering always state whether a Controller is desired for a Shunt or Series wound Motor,

Carpenter Enamel Rheostats.

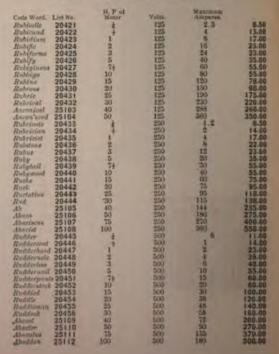
Type "R"

Small Motor Regulating Rheostats, 1-16 to 1-6 H. P.





These Rheostats are intended for regulating the speed of motors down to one-half of the full speed under full torque, and will stand the "maximum amperes" continuously with the full switch-lever on any contact.





No. 20416.



No. 20421.

Carpenter Enamel Rheostats.—(Continued.)

Motor Starting Rheostats.

With "No Voltage" Automatic Release. Protecting Motor in case of Failure of Current from any cause.

"IA" Type.

Code Ward. Link No. H. P. of Max. Ann. Link No.



W/	251	60
OTHER DESIGNATION.	2001	2004

Code Word	List No.	Motor.	Volts.	for 15 Sec.	Each.	
Aberrancy	25180	1	125	2.5	\$14.50	
Ruddy	20457	*	125	4.	14.50	
Rude	20458	1	125	8.	14.50	
Rudelg	20459	2	125	16.	16.00	
Rudeness	20460	3 5	125	24.	19.00	
Rudenture	20461	ō	125	40.	23.00	
Ruderary	20462	74	125	60,	28.00	
Rudecation	20463	10	125	80.	33.00	
Abburnte	25181	15	125	120.	46.00	
Abbernting	25182	20	125	150.	46.00	
Aberunoste	25183	25	125	190.	59.00	
Abermonto	25184	30	125	230.	79.00	
Abetment	25185	40	125	288.	82.00	
Abettal	25186	50	125	360.	92.00	
Abellur	25187	4	250	1.2	14.50	
Rudesby.	20464		250	2.	14.50	
Rudiment	20465	1	250	4	14.50	
Rudish	20466	3 5	250	8.	16.00	
Rudity	20467	3	250	12.	19.00	
Rudelphine	20468	5	250	20.	23.00	
Rue	20469	7+	250	30,	28.00	
Ruefut	20470	10	250	40.	32.00	
Ruefully	20471	15	250	60.	38.00	
Ruelle	20472	20	250	75.	41.00	
Abeznenatio		25	250	95.	46.00	
Abeyance	25189	30	250 250	115.	66.00	
Abeyant	25190	40	250	144.	67.00	
Abgregate	25191	50	250	180,	79.00	
Abgregation	25192	75	250	270.	117.00	
Abhal	25193	100	250	360.	157.00	
Abhomianh		1	500	.6	17.00	
Rufescent	20473		500	1.	17.00	
Ruff	20474	1	500	2,	17.00	
Ruffed	20475	3	500-	4.	19.00	
Roffinn	20476	3.	500	6.	21.00	
Rughanism	20477	5	500	10.	26.00	
Roffmuly	20478	7+	500	15.	30.00	
Rughanuns	20479	10	500	20.	34.00	
Ruttle	20480	15	500	30,	36.00	
Rufflement	20481	20	500	38.	39.00	

Spring Starters-Motor Starting Rheostats.

Provided with Safety Spring Switch.



N. andre

			'SS" Type.		
Code Word.	List No.	H. P. of Meter.	Volts	Max. Amp. for 15 Sec.	List Price, Each.
Abharribe	25201	A Diolot.	125	2.5	
Ruffeless	20482	1	125		7.00
Ruffler	20483	17	125	8.	7.00
Rufous	20484	â	125	16.	10.00
Ruft	20485	2	125	24.	13.00
Rufterhood	20486	2	125	40.	17.00
Rug	20487	71	125	60.	22.00
Rugate	20488	10	125	80.	27.00
Rugged	20489	15	125	120.	40.00
Ruggedly	20490	20	125	150	40.00
Rangestares	20491	25	125	100.	52.00
Ragging	20492	30	125	230.	72.00
Abhorring	25202	40.	125	288.	75.00
Abib	25203	50	125	360.	85.00

Carpenter Enamel Rheostats.—(Continued.)

Spring Starters-(Continued.)

Motor Starting Rheostats.



		115	S" Type.		
Code Word	List No.	H. P. ol Motor	- 000	Man Amp	Line From
thermelu un	25121	4	250	1.2	\$ 7.00
Rugguna	20493	1	250	2	7.00
Ruggotned	20494	1	250	4.	8.50
Ragun	20495	2	250	8	10.00
Rugin	20496	3	250	12	13.00
Rugine	20497	5	250	20.	17.00
Rugues	20498	72	250	30.	22.00
Rugular	20499	10	250	40.	25.00
Rain	20500	15	250	60.	32.00
Rafaable	20501	20	250	75.	35.00
Rainate	20502	25	250	35	40.02
Reinstra	20503	30	250	115	\$0.00
Abanet	25122	40	250	* 144	60.00
Abauga	25123	50	250	180	72,00
.thenantion	25124	75	250	270	1 (0.00
Abunilton	25125	100.	250	3/0.	150.00
Abaptisin	25126	4	300		9.00
Ruiner	20504		500	1	9.00
Rainfurm	20505	1	500	2.	9.00
Ruinone	20506	*	500	147	11.00
Ruinmela	20507	3	300	6.	13.00
Kuinonears	20508	5	500	10.	18.00
Rukh	20509	71	300	157	22.00
Rulable	20510	10	300	250	26.00
Rein	20511	12	500	30.	28.00
Rulaten	20512	20	500	38,	31.00
Ruler	20513	25	500	48.	36.00
Ruling	20514	30	500	38,	36.00
Abaptistus	25127	40	200	72.	56.00
Mare	25128	20	300	90:	70.00
Abarticalat	25129	75	300	135	97.60
Abres	25130	100	500.	180	130.00



No. 20515.

Leoard Universal Automatic Rheostat.

	With "		nd "No Voltag	c. Kelease	
		"DI			
Code Word	List No.	H P. of Motor	Volts	Mark Amp.	Las Prix
Abrahmant	25131	1	125	2.5	524.00
Rollingty	20515	4	125	4:	24.00
Rullichies	20516	1	125		24.00
Haly.	20517	2	125	16.	24.00
Ram	20518	3	125	24	24,00
Rumble	20519	5	125	40,	29.00
Rumbler	20520	74	125	80;	35.00
Rumblingly	20521	10	125	60,	40.00
Rambuid	20522	15	125	131.	55-00
Riemen	20521	20	125	150.	60.00
Abassi	25132	25	125	190;	70.00
Diousla	25133	30	120	230.	111.00
Abstor	25134	30	135	288.	126.00
Abattin	25135	30	185	36)	172-00

Carpenter Enamel Rheostats. - (Continued.)

"D L" Type-(Continued.)

Leonard Universal Automatic Rheostat.



No. 20028.

Code Word	Lint No.	H. P of	Volta	Max Amp.	List Price
Abertiard	25136		250	1.2	\$24.00
Ruminal	20528	- 1	250	2	24.00
Ruminant	20529	10	250	7	24.00
Ruminate	20530	2	250	8	24.00
Rumination		3	250	12	24.00
Ruminator	20532	5	250	20	29.00
Ruminsch	20533	71	250	30	35.00
Rumkin	20534	10	250	40	40.00
Rummage	20535	15	250	60	45.00
Abatude	25137	20	250	75	50.00
Abotura	25138	25	250	95	55.00
Aboreos	25139	30	250	115	
Abbatial	25140	40	250	144	75.00
Abbatical	25141	50	250	180	85.00
Abba	25142	75	250	270	90.00
Abatship	25143	100	250	360	185.00
Rumney	20539	100	500	300	230.00
Rumnous	20540	- 1	500	.0	26.00
	20541			1	26.00
Rumorer		1	500	2	26.00
Rumorous	20542	2 3	500		26.00
Rump	20543	3	500	6	27.00
Rumper	20544	5	560	10	32.00
Rumpfed	20545	74	500	15	36.00
Rumple	20546	10	500	20	40.00
Rumpless	20547	15	500	30	45.00
Abbreviate	25144	20	500	38	46.00
Abbreviation		25	500	48	50.00
Abbreviator		30	500	58	70.00
Abbreviator		40	500	72	75.00
Abbreviatur		50	500	90	88.00
Abb-woot	25149	75	000	135	135.00
Abdal	25150	100	500	180	180.00



Reversing Controllers.

Reversing Controllers, for Reversing Direction of Rotation and for Controlling Speed of Notors. "RR" Type.

One of the most difficult problems in connection with electric motors, is to secure a perfect device for operating a motor at a variable speed at will, and reversing its direction of rotation.

We handle a full line of reversing Rheostats for motors, from § H. P. to 100 H P., and of any voltage. Also a complete line of field reversing Rheostats We make a specialty of such Rheostats for traveling crane service and elevator service, and can ordinarily make prompt shipment from stock for usual sizes.

These controllers are provided with quick break devices, in connection with controlling switch, so that when bringing the motor to rest from either direction of rotation the arc lat broken instantly.

Code Word	Lus No	H. P. of Moint	Volta	Man. Amp	List Price Each,
Abderian	25151	2	125	16	\$85.00
Abdevite	25152	3	125	24	85.00
Abdert	25153	D	125	40	90.00
Abdicant	25154	74	125	60	105.00
Abdication	25155	10	125	80	105.00
Abdientive	25156	15	125	120	260.00
Abditory	25157	20	125	150	280.00
Abdomen	25158	25	125	190	300.00
Abdominat	25159	30	125	230	420.00
Abdominopy	25160	40	125	288	460.00
Aldominous	25161	50	125	360	500.00



Carpenter Enamel Rheostats.—(Continued) "RR" Type.—Continued. Reversing Controllers.

Code Word. List No.	H. P. of	Victa.	Man, Amp.	Sapher.
Abidance 25204	2	250		
Abider 25205	-	250	8.	252.31
Runer 20559	5	230	12.	85.84
Rung 20560		250	20.	36.00
Bunghand 20561	10	250		185.00
Hunic 20562		250	40.	195.46
	15		60. 75.	125.00
	207	250	290	145-25
	30	250	96,	300.03
Abidingly 25206 Abidie 25207	40	250	115,	320.00
		250	144	368.00
Abigail 25208	50 75	250	180.	425.66
Abiliment 25209		210	270.	600.00
Abintentate 25210	100	250	360	705-60
Abirribation 25211	2	500	4	103.09
Abjudionts 25212	3 5	500	6.	105.00
Runnel 20566		500	10.	105.00
Running 20567	79	500	-15.	185.80
Runn(m 20568	10	500	20	105.80
Runt 20569	15	500	30.	125.00
Rupes 20570	20	500	38.	145.80
Rupellary 20571	25	500	48.	165.00
Abjudication 25213	30	500	28,	165.81
Algugate 25214	40	500	72.	225.00
Abjunctice 25215	50	500	90:	265.00
Abjuration 25216	70	500	135.	.525.00
Abjuratory 25217	100	500	180.	625.00



Ventilating-Fan Speed Controllers. Reducing Speed of Fan and Series Wound Notor to Half-Full Sp "SV" Round Type. "V" Square Type.

	Ablartate 25220		125	SV	37	3.70
	Abhartation 2522	36	125	V	1.5	7.00
	Ablacqueste 25222	2 %	125	V	2.5	7.04
	Ahlarquestur 2522	3 %	125	V	400	7.80
The state of the s	Able-budged 25224		125	v	- 2	37.50
	Ablagate 25225		125	v	16.	15.00
	Ablegation 25226	3	125	V	24.	10.99
	Ablen 2522		125	37	40.	22.00
	.thlet 25221	7 75	125	1	40,	38.99
	Ablences 25229	10/2		35	60,	49.00
	100rnew 2522		125	Y.	80.	70.00
	Ablepay 25230	15	125	-V	120	59.00
	Ablest 2523	36	200	sv	.5	4,50
	Ablest 25232	2 1/4	2:0	8V	-55	4.50
ALCOHOLD MARKET	Abligate 25233	3 36	250	V	.4	12.00
2011/19/19/19	Abligation 25234	4 36	250	V	1.2	8.04
CONTRACTOR OF THE PARTY OF THE	Abligarithm 25235	5 36	250	V.	2	5.00
255 (March // /	Ablocate 25236	1	250	V	4.	81.00
A STATE OF THE PARTY OF THE PAR	Abluenting 25237	7 2	250.	V		15.00
1/8/	-166mm 25238	3 3	250	v	19	22.02
	Abluda 25235	5	250	v	90	20.00
	Abluent 25240	10	250	÷	500	45.00
Control of the Contro	Ablutionary 2524	10	250	· ·	40	65.00
1995	Ablusion 25247	15	250	-	400	22.0
1/8	Abnegation 25243		500	- 0	w	22.00
9///	Abnegative 2524	(5)	500	-	200	18.04
	Abnegator 2524		500	*	1.	12.00
4445-77102	Abust 25240	4		12.	7.	12.00
Salmi Uliana	Ahnadata 25247	2 2	500	X.	5.	34.09
AGREEMENT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO	Annuality 2524	4	500	X	6,	23.00
4	Abnodation 25248	9	500	N.	10.	38.89
	Absurance 25249		500	V.	10.	40.00
	Abottance 25250	10	500	X	20,	55.00
	Abadement 2525	15	500	V	30.	72.00



Carpenter Enamel Rheostats.—(Continued.)

125 Volt Round Type, Field Rheostats.

For Front of Board.



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Code Word.	List No.	Max. Amp. 1st Step.		Ohms of Kheostat	No. of Steps.	Ampere Capacity of Last Step.	Diam.	List Price, Each.	
Rusher	20593	.5	250.	300.	24	.227	8	\$ 12.50	
Rushgraus	20594	.62	200.	240.	24	.284	8	12.50	
Rushiness	20595	.75	166.	200.	24	.341	8	12.50	
Rushingly	20596	1.	125.	150.	24	.454	8	12.50	
Rushlight	20597	1.25	100.	120.	24	.568	8	12.50	
Rushiko	20598	1.5	83.	100.	24	.683	8	12.50	
Rushring	20599	2.	62.5	75.	24	.91	8	12.50	
Bunky	20600	2.5	50.	60.	24	1.13	8	12.50	
Rusk	20601	3.	42.	50.	24	1,35	8	12.50	
Resma	20602	4.	.31.	37.5	33	1.82	10	14.25	
Russ	20603	5,	25.	30.	44	2.27	12	18.50	
Rinertt	20604	6.	21.	25,	44	2.7	12	18.50	
Russetting	20605	8,	15.6	18.7	60	3.64	15	24.50	
Rossety	20606	10.	12.5	15.	.60	3.33	15	24.50	
Runsintenth	20607	12.5	10.	12.	60	5.7	15	39.00	
Rassia	20608	16.	7.8	3 9.3	60,	7.8	15	39.00	
Russina	20609	20.	46.5	7.5	80	9.1	15	56.00	
Rost	20610	25,	5.	6.	60	11.36	15	56.00	
			For Bac	ck of Be	oard,				

Ohms of Field

Code Word.	List No.	Max. Amp. int Step.	to which the well suited.	Ohms of Checotat	No. of Steps	Capacity of Last Step.	Diam.	Price. Each.
Rustful	20611	,5	250.	300.	24	.227	8	\$ 25.00
Rustie	20612	.62	200;	240.	24	,284	8	25.00
Rustical	20613	-75	166.	200.	24	.341	8	25.00
Rustically	20614	1.	125.	150.	24	.454	8	25.00
Rusticate	20615	1.2	100.	120.	24	.568	8	25.00
Rustiention	20616	1.5	83.	100.	24	.683	8	25.00
Husticity	20617	2.	62.5	75.	24	.91	8	25.00
Rusting	20618	2.5	50.	60.	24	1.13	8	25.00
Rustiness	20619	3.	42.	50.	24	1.35	8	25.00
Rentfoint	20620	4.	31.	37,5	33	1,82	10	27.50
Rustle	20621	B.	25;	30.	44	2.27	12	31.50
Rustler	20622	6.	21.	25.	44	2.7	12	31.50
Routy	20623	8.	15.6	18.75	60	3.64	15	37.00
Ru	20624	10.	12.5	15.	60	3.33	15	37.00
Rutabaga	20625	12.5	10.	12.	60	5.7	15	48.00
Rutaceous	20626	16.	7.8	9.3	60.	7.3	15	48.00
Ruth	20627	20.	6.2	7.5	00	9.1	15	66.00
Ruthenium	20628	25.	5,	6.	60	11.36	15	66.00

2061L



No./20020A



No. 20037.



No. 20039.



No. 20641.

Carpenter Enamel Rheostats.—(Continued.) 250 Volt Round Type, Field Rheostats.

For Front of Board.

Fig. 8, 9 and 10.

Chelle Word.	Lat No.	Man. Amp. Int Styp.		Ohms of Klupstai	No. of Steps.	Ampere Capacity of Lant Step.	Diag	
Rothfol	20629	1	.250	300	-64	454	12	\$18.50
Ruthfully	20630	1.25	200	240.	44.	.568	12	(8.30
Ruthlens	20631	1.5	166	200,	44	.682	12	18.50
Bulidasia	20632	2	125	150:	44	909	12	18.50
Ruttl	20633	2.5	100	120.	44	1,136	12	18.50
Rotinent	20634	3	83	100:	44	1.306	12	18.50
Ruidates	20635	4	62	75	60	1.82	15	24.50
Rutile "	20636	5	50	60	60	2,27	15	24.50
Rutter	20637	6.25	40	48:5	190	2.81	15	35.64
Rottechia	20638	-8.	31	-37	602	3.65	175	35.08
Ruttler	20639	10.	25	30.	100	4.54	13	58.04
Romin	20640	12.5	30	24	60	. 5.7	15	56.00

For Back of Board.

Code Word.	Lin.No.	Mar. Amp. Int Step.	Hhemstat	Ohms of Ribrostat	No. of Steps	Ampena Coperaty of Last Step.	Diam	1111
Rottinhagas	20641	I.	200	2000	44	454	12	\$11.50
Ruttle	20642	1.25	200	210	44.	.568	12	31-50
Rutty	20643	1.5	166	200.	-64	1202	12	31.50
Ryal	20544	2.	125	150.	44	.900	12	31.50
Rydor	20845	2.5	100	120.	64	1.136	12	31.50
Rye	20646	3	83	100.	44	1.386	12	31.50
Raignus	20647	4.	0.5	75.	00	1.82	15	37.00
Rynchope	20648	8.	50	60.	110	2.27	15	37.00
Rynd	20649	6.25	40	45.	60	2.86	15	48.00
Ryat	20650	8.	31	37.5	60	31.65	15	48.00
Ryth	20651	10.	25	30.	60	4.54	15	66.00
Rytins	20652	12.5	20	24.	60	5.7	15:	66-00

500 Volt Round Type, Field Rheostats.

Front of Board.

Code Word.	List No.	Max. Amp. Int. Step.		Ohms at	No. of Steps	Ampere Capacity of Last Step.	Dien.	List Freez. Each.
Sudah	20653	1.25	400	480	44	568	12	\$18.50
Salus	20654	1.5	-333	400	44	682	12	18.50
Sabadilla	20655	2	250	200	.00	-309	13	24.50
Sabnern	20656	世五	200	240	00	1.14	15	24.50
Subgarnism	20657	3.	166	200	110	1,26	15	39.40
Saletien	20658	4.	125	150	60	1.82	15	39.00
Subst	20659	3.	100	220	603	2.27	15	56.00
Saleuth	20660	6.25	80.	-90	60	2.84	15	56.00

Carpenter Enamel Rheostats.—(Continued.)

500 Volt Round Type, Field Rheostats.

For Back of Board.

Code Word.	List No.	Mas. Amp. int Step.		Ohms of Kheostas	No. of Steps.	Ampere Capacity of Last Step.	Dises.	List Price, Each.
Sabasta	20661	1 25	400	480	44	568	12	\$31.50
Sabbat	20662	1.5	333	400	44	.682	12	31.50
Sabbatarian	20663	2.	250	300	60	.909	15	37.00
Salutta	20664	2.5	200	240	60	1.14	15	37.00
Subbutle	20665	3.	166	200	60	1.36	15	48.00
Sabbution	20666	4.	125	150	60	1.82	15	48.00
Sabbatana	20667	5.	100	120	60	2.25	15	66.00
F-117-1	DORGO	0.02	400	0.0	200	0.01	440	CC 00



Field Rheostats of Large Capacity.

For Railway and Large Incandescent Lighting Generators.

20-	BROWN.	are an	207	
27 (3.	Server.	HIGH SY	20,171	ж.

Code Word	List No.	Mas. Amp. Int Step.	Field to which Khenntat is well muited.	Ohms of Rheestat	No. of Steps	Ampere Capacity of Last Step.	Volta.	Line Price. Each.	
Saboru:	20669	8.	18.7	22.5	80	3.6	150	\$ 70.00	
Babelena	20670	10.	15.	18.	80	4.5	46	70-00	
Sabella	20671	12.	12.5	15.	80	5.4	100	84.00	
Subullanas	20672	16.	9.4	11.2	.80	7.2	44.	84.00	
Sabellian	20673	20.	7.5	9.	80	9.	-10	84.00	
Sitter	20674	24.	6.2	7.5	80	10.5	-60	98.00	
Salden	20675	32.	4.7	5,6	80	14.4	-68	112.00	
Solienism	20676	40.	3.7	4.5	80	18.	34	127.00	
Sabine	20677	48,	3.1	3.8	80	21.6	- 02	156.00	
Suble	20678	64.	2.3	2.8	80	28.8	(68	184.00	
Sublemmae	20679	80.	1.0	2.2	80	36	-81	200.00	
Sublices	20680	100.	1,5	1,8	- 80	45.	-64	230.00	
Sabot	20681	128.	1.2	1.4	80	57.6	n	315.00	
Sabulous	20682	4.	75.	00.	80	1.8	300	70.00	
Bne	20683	5.	80.	72.	90	2.2	- 44	70.00	
Bacar	20684	6.	30.	60.	.80	2.7	-40	84.00	
Burbaile	20685	8.	37.5	45.	80	3.6	-	84.00	
Sacorte	20686	10.	30.	36,	90	4.5	- 00	84.00	
Sambarie	20687	12,	25.	30	80	5.5	14	98.00	
Saecharifinas	20688	16.	18.7	22,5	80	7.2	-14,	112.00	
Succharify	20689	20	15;	18,	80	9.0	10	112.00	
Bacekarilla	20690	24.	12.5	15.	80.	11.0	-	142.00	
Buccharinet	20691	32.	9.4	11.2	80	14.4	*	170.00	

Carpenter Enamel Rheostats .- (Continued)

For Railway Generators.

	Max	Field to which Rheosta			ATTEN .		
Cole Word: List No. 10	Amp.	is well.	Chaus of Klaussiat.	Nunt	of Last	Villa	100
Sancharine 20692	2	300	360.	80	91	000	9.70 pt
Sucharity 20693	2.5	240	288	NO.	1.13	000	70.00
Saicharold 20694	3	200	240	80	1 26	700	25.00
Serchamidal 20695	4.	150	180	80	1.80	500	MARI
Sercherweter 20696	3	120	144	80	2 27	.000	8406
Sarchervia 20697	6	100	120	NO	2.72	600	96.00
Sacrânlactete 20698	-8	75	90	80	3 63	600	172.00
Sandalote 20699	10	60	72	80	4.54	600	112.00
Sambabuir 20700	13	50.	60	80	5.45	6000	14230
Sacriform 20701	16	37.5	45	80	7.26	600	170.00
Santimys 20702	20	30	36	81	9.09	#00	170.00
Sumilar 20703	25	24.	28.6	80	11 26	100	200.00
Secretary 20704	32	18-70	22.5	80	14.34	FR00	285.00



No. 20705.

Theatre Dimmers.

It is safe as regards fire risk, at self contained, and is shipped complete from factory ready to set up on the stage and connect the two circuit wires in it

			No. of in C. P. ion-tip Volt. So Watt Lamps Controlled	No ad Burps Max Amperes	Porst Diep	Max. Ampered	Horiz Along Pivos	Acrons	All) a slave Access Flyers	Walter.	14
Code Word	List No.	Tibe					AND	Dist	Ante		100
Aboding Aboding Abodin Abolishmen Abodishmen Abodishmen Abodishmen Abodismin Abodismin Abomanm Abomana Abominable Abominable Abominable Abominable Abominate Abon Abon Abon Abon Abon Abon Abon Abon	25257 25258 25259 25260 25261 25262 25263 25264 25265 25266 25267 25268 25268 25268 25268 25268 25268	SD BD COLLEGE	15 1 20 1 25 1 30 1 40 2 30 50 3 30 75 3 40 100 3 10 125 3 80 200 8 80 200 8 80 200 8	62 50 62 62 60 75 60 87 60 100 60 112	5 5 5 5	1 2 3 6 1 2 5 5 5 5 5 10 5 5 5 10 5 10 5 10 5 1	10 10 30 34 4 4 4 4 5 6 6 6 6 10 10 10	5 5 5 6 7 9 11 14 14 18 18 18 18 18 18 18	5 5 5 5 11 11 14 14 26 36 36 36 36	14	1 4.54 4.54 4.54 11.00 14.53 14.54 13.84 27.00 27.00 40.00 45.00 50.00 80.00 50.00 80.00 80.00 90.00
About	25273	M	100-250 3	0 125		25.	10	.18	-36	170	95.00
Above-board	25274	A.	110-275 5 120-300 £	0 137	ō	27.5	10	18	36	170	100.00
33/145 I-	-	-	Contrabas				-	Canal Con	-		

With Interlocking Switches. "IBD" Type. 100-125 Volt Lamps

111000	-	-		100		200	100-12		715 64	100
Above-deck	25276	d	20- 50 50	25	2	8	18	-66	112	85.00
Above-said	25277	**	30- 75 50	57.5	7.5	8	18	44	112	65.00
Abraid	25278	100	40-100 50	80.	10	8	18	44	112	70.00
Abraum	25279	•	50-125 50			8	18	84	112	75.00
Abrazas	25280	-11	60-150 50	75	15.	8	18	44	112	75.84
Abray	25281	-	70-175 50	87.5	17.5	12	18	44	TWG	105.00
Abrenouna	25282	19	80-200 20	100.	20.	12	18	44	195	110.00
Abricack	25283	-01	90-225 50	112.5	22.5	13	18	44	196	115.00
Abroach	25284		100-250 50	125.	25.	12	18	41	195	120.88
Abrogation	25285	146	110-275 50	137.6	27.5	12	18	44	1983	125.00
Abroad	25286	-0	120-300 50			12	18	64	106	135.00

American "Universal" Enamel Field Rheostats.

For 250 Volts. Single Plates.

		,,,, ,,,	
Maximum Ampere Capacity with only One Section of Resistance in Circuit.	Maximum Ohms in Kheostat.	Minimum Ohms in Field on 220 Volts, required to keep Amperes within limit stated in column 1.	
1.	250	240	
1.25	196	192	
1.5	178	167	No. of Steps 2 inches
1.76	161	139	Price Front of Board \$15 (0) Price Back of Board 25 (0)
2.	136	122	THE BACK OF BARRIES 25 (6)
12.25	102	109	
1.	310	240	'
1.5	238	167	Diameter of Plate 1015 inches No. of Steps 111 1111 1111
2.	186	122	Price Front of Board \$18 (0) Price Back of Board 27 (0)
2.5	114	98	Frice back of Doutte 24,00
1.	450	240	
2.	317	122	Diameter of Plate 12 inches No, of steps
3.	145	h2	Price Front of Board \$22 (0) Price Back of Board 31 (0)
4.	59	61	Frice Dack of Board St ov
1.	400	240	· · · · · · · · · · · · · · · · · · ·
2.	467	122	Diameter of Plate 15 inches
3	238	H2	No. of steps
4.	99	61	Price Back of Board 37 (4)
5.	48	49	
<u>.</u> !	_ ==	'	-

Double Plates.

			
6	73.	1 1 41	Diameter of Plate 12 inches No. of Steps
H	29.5	30 5	Price Front of Board 840 00 Price Back of Board 49 00
		;	
б	119	41.	Diameter of Plate 15 inches
4	49 2	30.5	No. of Steps (9) Price Front of Board (83) (9)
10,	24.	215	Price Back of Board 60 (0)
	i	1	1

In Ordering, state the maximum voltage at the dynamo, and the resistance of the shunt field circuit; or, the maximum voltage, and the maximum number of amperes required for the field circuit.

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esat" Enumel Field

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j ÷ • :

6. 12.3 12.3 977 12 : t 14 : t 14 : 3: 11 of the shunt field circuit; or, the maximum voltage at the dynamo, and the resist of the shunt field circuit; or, the maximum voltage, and the maximum ter of amperes required for the field circuit.

American "Universal" Enamel Field Rheostats.

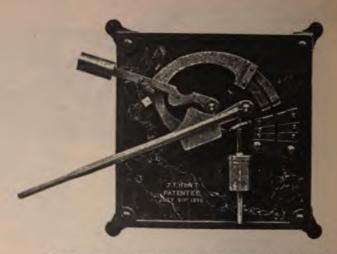
For 250 Volts. Single Plates.

Maximum Ampere Capacity with only One Section of Resistance in Circuit.	Maximum Ohms in Rheostat.	Minimum Ohms in Field. on 250 Volts, required to keep Amperes within limit stated in column 1.	
1.	250	240	
1.25	195	192	71 4 TM
1.5	178	167	No. of Steps 9 inches
1.75	161	139	Price Front of Board\$15.00 Price Back of Board 26 00
2.	136	122	
2.25	102	108	
1.	310	240	
1.5	239	167	Diameter of Plate101; inches No. of Steps31
2.	186	122	Price Front of Board \$18 00 Price Back of Board 27.00
2.5	114	SHR	
1.	450	240	
2.	317	122	Diameter of Plate 12 inches No. of steps
3.	145	H2	Price Front of Board . \$22.00 Price Back of Board
4.	59	61	
1.	400	240	
2.	467	122	Diameter of Plate 15 inche
3	238	H2	No. of steps
4"	W	61	Price Back of Board 37 (4
5.	48	49	

6	73	41 30 5	Diameter of Plate 12 inches No. of Steps 15 Price Front of Board 1840 (0) Price Back of Board 1850 (0)
8 8 10	119 49-2 24	41. 30.5 24.5	Diameter of Plate 15 inches No of Steps

In Ordering, state the maximum voltage at the dynamo, and the relistance of the shunt Beld circuit; or, the maximum voltage, and the maximum voltage, and the maximum or number of amperes required for the field circuit.

Automatic Switches for Electric Motors-(Continued)



The above out represents Switch for automatically starting and stopping Electric Massr up to and including 5 H. P. Arranged to allow the current to gradually enter through residence, preventing under sparking at commutator at time of starting motor, thus taking the place of a starting box or rheostat as usually operated by hand.

This switch can be readily adjusted so that the time taken to turn on full current can be varied from 5 to 30 seconds.

Price List.	Plain	Marketon Ser.
1 H. P. 2 * 3 * 4 * 5 * Tinned copper ball float, 2 pulleys, 10 feet brass chain, well balls, complete.	58.00 65.00 72.00 80.00	
Separate Parts.		
Tinned Copper Hall Float Ilram Chain, per foot Japanned Iron Pulleys. Brass Box, with Adjusting Weights. Adjusting Balls.		- 40 1.00



Adjustable Rheostats.

This Rheostat is simple in construction, reliable in operation, and low in cost. It is perfectly fire-proof throughout, only iron and asbestos being used in its construction. The resistance wire is wound upon an asbesto structure. The resistance wire is wound upon an assess-tes covared wrought iron drum and over the wire is spread a layer of fire-proof cement.

The drums are made both round and elliptical in shape and offer a large radiating surface which insures a cool and uniform action.

The contact with the resistance wire in the drum is made by a slide carrying a number of rollers, thereby insuring good contact at several points and avoiding any

neating.

Owing to the form of the shell an exceedingly delicate graduation of resistance is obtained, and moreover the drum occupies but little space in width and is, therefore well adapted for use upon Station Switchboards.

These Rheostats can be operated directly or by mechanism connecting to the front of the Board.

Specify voltage when ordering.

Sattepring	21016	For	36	K. W.	Dynamos	****************	\$20.00
Sultienter	21017		3	36			20.00
Sultwork	21018	- 66.	12	46.	44.		22.00
Saltwort	21019	46	15	-	-	**************	22.00
Salty	21020		17	44		Personal Property leaders	22.00
Salubrious	21021	44	20	44	441	Linear Sware Labour.	24.00
Salubrimaln	21022	-	25	44		***************	24.00
Balubri	21023	46	30	46.	-44	***************************************	24.00
Balubrity	21024	*	40	-16	- 4		24.00
Salutarily	21025	44	50	-	**		26.00
Salutarinas	21026	-6	60	401	**		26.00
Salutgry	21027	*	75	-4	**	little and and address of the little and	26.00
Salutation	21028	45.7	100	4	*	**********	26.00

Prices quoted on special sizes.



B.-F. Theatre Dimmers.

The Bairstow-Fanning Theatre Dimmer is an adjustable Rheostat for regulating the brilliancy of incandescent lamps for stage effects.

In construction these Dimmers resemble our adjustable

rheostate described above.

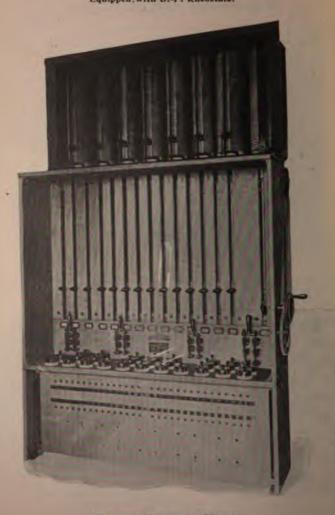
The alterations in voltage of the lamps with the aid of The alterations in voltage of the lamps with the aid of these Dimosers, may be made so gradually that the change in liumination is entirely imperceptible; while on the other hand the lamps may be brought from a bright incandescence to a dull glow almost instantly This valuable quality of rapidity of adjustment is entirely under control of the operator; while the great range and delicacy of graduations of the Dimmers is afforded by their design and construction.

These Theatre Dimmers are made not only to dim the lamps, i. e. to bring the lamps to a dull "low; but also to totally darken them if desired.

We have the sole right to manufacture these Dimmers and can furnish them in any size.

Interlocking Switchboard for Theatre Lighting.

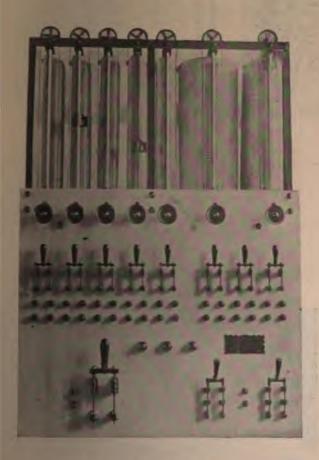
Equipped, with B.-F. Rheostats.



Erected in the Davidson Theatre, Allwaukee, Wisconsin.

Switchboard for Theatre Lighting.

Equipped with B.-F. Rheostats.



Erected in the Oliver Opera House, South Bend, Ind.



B.-F. Theatre Dimmers.-(Continued)

Code Word.	Links					1	at The
Bio	372	8	Ampires	single			\$24.00
Dia	373	25					50.00
Inches	374	25					23.M
Intery	375	20		× 1			26.00
Indicate	378	25					21.01
Irisia.	377	40		-			42.08
Log	378	20		two is	multiple		51.08
Est.	379	453	100	-	-		85.02
Ideal.	394	20			-		75.00
Z4lim.	381	80					51.58
Ittie.	382	20		20.0	-		119.00
16g	283	270		three			129.00
Taketer	384	155	-		- 8		136.00
Shirtnee	385	150	-	four			150.00

Lightning Arresters.

electrical apparatus against lightning. The successful operation of lightning all appears that is nordinarily suppose matic arrangements of the lightning arrelates and choice the care with which the installation is nonce to short straight ground wires, relinction and maintenance of these counter. The protection of electric light and payides likely under two heads: first, the particular systems.

arthoring systems; second, the profection of trainmospheres.

The Protection of Distributing Systems in effected means of lightning stresters distributed at frequent in value over the system. In surburbas and otherwise expeditivities four to the mile of wire are recommended, eity districts two are usually found sufficient.

Power Trunamission Systems do not require line are term. The points of protection being at the extremi of the system, namely, in the power house and metallons, a bank of lightning arresters, to combine with choke coils, is installed at each of these points, voltages up to 3000 volts, four choke coils arranges are recommended. For higher voltages than this, specumbinations have to be made, according to the generator and the use of raising and losting transformers.

Carlontins Hell Lightning Arrester.



Wo. 136.

Swinging Ball Lightning Arrester.

Lacoretion 126 Each 58.00



.



No. 20765.



No. 20761.

Lightning Arresters.

Wurt Lightning Arresters.

Double Pole Station Arrester.

Type A.

e Word. List No.

Code Word. List No.

List Price.
Each.

Saddlery 20763 For Alternating Current, Incandescent and
Power Circuits, up to 1200 volts, each. \$21.00

Use two up to 2400 volts.
Use three up to 3200 volts.

Double Pole Line Arresters.

Type C.

Saddletree 20765 For Alternating Current, Incandescent and Power Circuits, up to 1200 volta, each. 4.50

Use two up to 2100 volts.
Use three up to 3000 volts.

Single Pole Station Arrester.

Type K .- For Direct Current Only.

125 up to 600 volts.



No. 20769.



Lightning Arresters .- (Continued.)

Wurt Lightning Arresters. (Continued.)

Single Pole Line Arrester.

Code Word List No. 20768 For Direct Current Arc Circuits up to Type J similar to Type L.

Type L.

Saddnessiam 20769 For Direct Current Circuits, 15 up to 600 Volts.

Single Pole Station Arrester.

Type L

Sadducton 20770 For Direct Current Arc Circuits up to 4000 Volts.....

Double Pole Station Arrester.

Type F.

Sadducies 20771 For Direct Current, Brush Circuits only 21.00



No. 20770.

Garton Lightning Arrester.

			-	-		
Almobitist	25312	Stock	on Arreste	or, 100	arble base	11.00
Abadististis	25313	(4)	-	m	arbleiged slate	11.00
Absolutory	25314	-	-	pf	ain slate	8.00
-lba-inchle	25315	Pole.	Arrestor,	with	Iros cover	11.00
Abulcetory	25316	*	24	100	wooden cover	8.00
Mounte	25317	Car	-		iron cover	11.00
			Kick	ing	Colli-	

		Kicking Colli-	
Absorber	25318	Marble Base, 325 amperes	14.00
Abanrbahit	25319	Wooden Buse, 225 amperes	12.00
Absorbable	25320	Marble Base, 125 amperes	12.00
Marbition	25321	Plain State, 125 amperes	10.00
Margot	25322	Car and Stationary	9 03
suchion which		and white he would be ble maken the	

"In ordering Garton Lightning Are

WESTERN ELECTRIC COMPANY.



Perfection Woven Wire Brushes.

Balient					45.1-1	a 1_	•		E.a
Saliently	20900		. wide,	3-16 ins	. tbick,		long		\$
		¥	_		-	7	u	• • • • • • • •	
Saliferous	20902	×	-	1.2		7	"	• • • • • • •	
Baliffable	20903	%	-	14	_	7		• • • • • • •	
Salification	20904	1		1.8		7	4		
Salify	20905	1		1-4	4	7	"		
Saligat	20906	1	•	5-16		7	*		
Salina	20907	1%	•	1-4	4	7	4	· · · · · · · ·	
Hilination	20906	1%	•	5-16		7	4		
Saline	20906	1%	•	38		7	44		
Balineness	20910	11/6	•	1-2		7	*		
Saliniferous	20911	1%	•	1-4		7	*		
Soliniform	20912	1 %		5-16		7			
Balinemeter	20913	1 💢	44	3.8	4	7	*		:
Salinous	20914	1%		1.2	4	7	4		1
Belique	20915	136	•	3-16	-	7	"		-
Salite	20916	136	4	1-4		7	4		
Solion	20917	136		5 16		7	*		:
Balival	20918	116	u	3.8		7	**		- 3
Balisant	20919	134		12	4	7			- 3
Salivary	20920	114	•	1.4	4	7			-
Salivate	20921	134	4	5 16	4	i			
Balivation	20922	1%	4	38		ż			
Salivous	20923	156		12	4	ż			
Saliz	20924	1%		58		ż			:
Sallenders	20925	1%		5.X		ė			
Sallet	20926	1%		14	4	7			
Salletine	20920			5 16		7		· · · · · · · ·	
Balliance		1%	_	3 8	_	1			
Sallen Rallen	20928	1%				7			3
		1%		12			-		3
Balloreness	20930	14		14		7	-		3
Nallocthorn	20931	11/		5 16		8		• • • • •	3
Hally	20932	1%	-	8-4		8			3
Hallylunn	20933	1%	-	1.2		8	-	• • • •	3
Hallyport	20934	116		5 H		H	•		3
Salmagundi		134	-	3 4	4	8			4
Salmuse	20936	1%	•	78	**	H	••		4
Balmio	20937	1 3%		1.4	.4	7	••		:
Salmon	20938	174		5-16	**	H	••		2
Halmonet	20939	174	"	3.8	**	N	••		2
Bulmonvid	20940	1 34	**	1.2	**	4	**		3
Salmonpeel	20941	1 34	4	58	••	×	**		4
Salmonpipe	20942	114		5.8	**	12	••		7
Salmontraut	20943	2	•	1.4		7	•		1
Salygen	20944	2	4	5 16	••	×	44		:
Balon	20945	2	•	3 ×	4	١,	•		3
Saloon	20946	2		12		4			3
Subup	20947	2	**	5 M		×			4
Salap	20948	214		3 ×		4			3
Nalpa	20949	24		3 %		٠.			- 3
Sulpian	20950	24		12		4			4
Nalpicon	20951	24	**	3 4		H			4
Salarify.	20952	21/2		5 16		H			3
Balon	20953	24		3 %		8	••		ž



Perfection Woven Wire Brushes.

—(Continued.)

Caste Word	List No								e Pres Each
Salsilla	20954	2%	ins. wide,	1.2	ins. thick,	8 ins.	long		 \$4.30
S-closucid	20955	214		5.8	-	H	•	•••	 5.00
Saleeda	20956	274	•	3.8	•	8	•		435
Saladaceous	20957	216	•	1.2	•	8	•		 4.75
Solunginous	20958	274	•	5-8	44	8	•		 12
Sult	20959	3		3-8		8	•	٠.	430
Saltant	20960	3		1.2	4	M	•	. .	 5.00
Saltarello	20961	3	-	6-8	•	5	•		 5.75
Saltate	20962	3	•	3-4	4	8	-		 6.50
Saltation.	20963	3%	-	1.4	•	H	•		 3.00
Saltatorial	20964	33		3-16		В	L		 3.75
Sallatory	20065	3 4		38	•	В	•		4.75
Sultonke	20966	33	•	12		8	•	٠.	 5.50
Salton	20967	33		58	•	8	-		 6.50
Saltedlar	20968	34		3.4		Ŗ	•	•	 7.50



Carbon Brushes.

We give below a list of the Standard Curbon Brushes used on Western Electric Generators and Motors. In addition to this list we are prepared to quote prices on any size needed. When you are in the market for brushes write to us for special price list which will be mailed on application.

Code Word	List No														ant Pro
Sopling	21269	1%		% 1	L	×	٠.			 	 		 	٠.	\$20.0
эпронассоня	21270	14													
Saponacity	21271	14		X :											
Superary	21272	2	x	٠,		ä.		 	٠.		 	٠.			 28.6
Sapenifiable	21273		x 1			ij.									
Saportfy	21274	2	1 2			Ñ.									40.
Samme	21275	21	x	% :											28.0
Superiule	21276	21,													25.
Super	21277	21,													
Saporific	21278	24													
Saperonity	21279	25													
Saporous	21280	24													25.
Sapeta	21281			41											55.0
Suppore	21282		хİ	٠,		¥.	 								
Sapper	21283			ι,											
Sappkie	21284			ŭ,											 70.
Suppiner	21286	4	x 2	٠,	. 1										
Sappy	21287	4	x 2	,	. 1	١,									
Naproller	21288	4	1 2			١.									130.

Western Electric Non-Sparking Brushes.



Western Electric Non-Sparking Brushes are ade under Patent No. 419,600, and are spec ially adapted for use on dynamos where metal brushes are ordinarily used.

The brushes are constructed with high resistance metal placed upon both sides of a low realstance, the object being

to prevent sparking at the edges of the brushes when leaving the segments.

The principle on which these brushes work is shown in the cut. The armature coils are represented diagrammatically at c c, and the brush is shown just before it leaves one of the commutator segments. It will be seen from an inspection of the cut that the current traveling up on either side of the armature, and passing into the brush from the segments a and d, has to pass through the high resistance metal of the brush, while the cur-rent can pass through the coils c' and c' into the segment b, and from there into the low resistance metal of the brush. Of course, under these conditions, the main body of the current goes through the low resistance metal, and as the segment a approaches nearer and nearer the tip of the brush the resistance still further increases and the amount of current

flowing from segment a into the brush is gradually diminished until just as the brush leaves the segment there is very little, if any, current to be interrupted, and conse-

quently little or no sparking.

This action takes place whether the brush is in its proper position for the load it is carrying or not, the action in the latter case being to reduce the amount of current which has to be broken when the segment leaves the tip of the brush, and consequently when sparking does occur it is not as vio-

lent as if the ordinary low resistance brush was used.

An insulating medium is placed between the high resistance metal and the stiffening springs on the outside of the brushes which prevents the current from reaching the brush holder without first passing through the entire length of the

These brushes are made of selected material of the best quality and in the most careful manner possible.

e outside strips of stiffened metal should never be allowed to touch the commutator. If this happens the high resistance metal is short-circuited and rendered useless. When the brushes become worn down use a file or back saw

to cut away about an inch of the metal of the stiffening springs.

If brushes tend to spread at the toe, the atiffening springs may be bowed at the brush holder to hold the toe more tightly together. Tension may be light if commutator is true and smooth. Some lubrication is needed—oil is generally used, but in some cases something heavier is to be preferred, such as vaseline or tailow. There are very few commutators that do not need the occasional application of sandpaper if for no other reason than to keep the mice down to the level of the conner. A rish in time save a trip is the the mica down to the level of the copper. A rub in time saves a trip to the

Next to a smooth commutator, the most important condition for sparkless running of dynamo brushes is the amount of "lap," or length of bearing of the brush. The lap is determined by the thickness and the bevel of the "business end" of the brush. Except where otherwise specified Western Électric Brushes are made with a bevel of forty-five degrees. This repre-



ing Bow of Stiffening Spring.

Western Electric Non-Sparking Brushes.

(Continued.)

sents the common practice. Siemens & Halake brushes are bevelot to twenty nine degrees. It is not uncommon to find dynamos which have been running for years with totally wrong lap on the brushes. No rule can be held down, but in most cases a little observation will show what is best for a particular dynamo, and after this has been determined the correct bevel should be maintained by trimming brushes when necessary. In some cases trimming can be saved in part by carefully shoving forward one brush at a time, allowing the natural wear to restore the original bevel.

Regular Stock Sizes of Western Electric Brushes.

See Special List for other Sizes.

Style	Width.	Thickness	Length	Price
A		4	8	\$ (6)
M	4	8 1	8	1.05
R	1	· A	8	1 15
B	1	X	×	1.25
N	1	1 2	.8	1.45
F	14	1	8	1 15
1	11		8	1.40
1)	11	1 2	8	1.65
D	18	2	10	2 00
J	16		10	2 (3)
1.	14	10	8	1.55
U	14	- X	8	1.70
1.	14	1 3	10	2.05
11.	14	1 1	10	2.45
K	14	1	10	3.25
G.	14	1.	10	2.85
E	14	1 2	12	4.60

Price List of Western Electric Brushes.

n Indos' I	in Indoor	1 3	à	. 1	ě	1	1.11	11	1	14	18	12	14	2
1	1.8	31 1 11	30 (4)	80 55	80 70	3 0 75	\$1) M)	ş0 K5	g() (II)	80 N2	\$1.00	\$1.05	\$1.10	\$1 15
i !	10	(65)		7.5	. 40	5.1		1 (0)	1 05	' 1 10	1.15	1.25	1.30	1 35
	(12	70		5.1	(8)	95		1 10	1 20	1 25	1.30	1.40	1 43	1 4
- 1	. 5	7.5			95	1 (4)		1 15	1.31	1 25	1.30	1.40	1.45	1 3
1 1	10	50			1 05	1 15	1.20	1 30	1 35	1 45	1.50	1.60	1 1 70	1 1 73
	/ 12	55			1 15	1/25	1 35	1 45	1.50	1.65	70	1.80	90	2 11
. 1	1.5	(4)			1 15	1 25		1.40	1 45	1 55	60	1.70	80	1.8
ia .	10	1 (1)		1 20	1 30	1.40	1.50	1 60	1 70	1.30	85	1.95	2.05	2 1
!	(12	1.05		1 30	1 10	1.50		1.75	1 1915	2 00	2.15	2.25	2.35	2 5
. :	1.5	1 10		1 25	1 35	1.45	1 55	1 65	1 50	1.50	1.90	2.00	2.10	22
1	10	1 15			1.50	1 65		1.55	2 181	2 10	2.20	2.35	2.45	2 1
!	(12	1 20		1 55	1 79	1.55	1 95	2 10	m m11	2,40	2.50	2.65	2.80	2 14
	1.5	1 25		1 45	1 (34)	. 1 70	1.80	1 (4)	2 (0)	2 10	2.20	2.35	2.45	2 5
i :	710	1 35		1 60	1 75	1,50	05	2 15	2 30	2 45	2 60	2.70		3.00
1	/ 12	1 45		1 6	1 35	1 10	2.30	2 15	2.60	2.40	2.50	3.10	3.25	2 90
. !	١.٣	1.40		16	2 00	2.15			2.30				2.80	3 40
• 1	} 10 } 12	1 65			2 21	2.40		S 12	2.95	3.15	3.35	3.10	3.25	3.90
	. 8	1 170		2 5	2 20	2.35	2.50	2.65	2.80	3.00	3.15	3.30	3.45	3 60
	16	1100			2 45	2 65	2.85	3.05	3.25	3 45	3.65	3.85	4 (65	4 2
•	(12		2 25		2 75	3.00	3 90	3.45	9.70	3.90	4 15	4.40	4 60	15
_ '		1,01	- (100	1. 10	I M. LAI	1 10.00	0.40	9.10	10,00	4.10	1 7.40	E-00	4.00

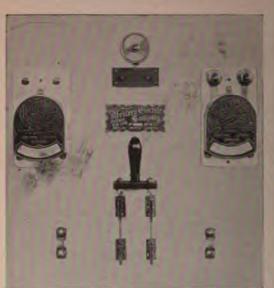
A luch price will be charged fo

u thickness.

Brush Copper.

RESULAR SIZES IN STOCK. SPECIAL SIZES MADE UPON SHORT NOTICE.

Nos. R. & S. Gauge.	16 in, and	Over 14 in. to 1 in.	Over 1 in. to 11/2 in,	Over 114 in. to 2 in.	Over 9 in. to 3½ in.	Over 2½ in.
23	80.874	\$0.87	\$0.861	\$0.861	\$0 864	\$0.36
24	.87	.87	.864	.361	.861	.86
25	.884	.88	.871	.374	.871	.37
26	.884	.38	.371	.871	.371	.87
27	.40	.89	.39	.89	.89	.38
26	.40	.891	.39	.89	.39	.88
20	.41	.401	.40	.40	.40	.39
80	:41	.401	.40	.40	.40	.39
81	.43	.42	.414	.414	.413	.40
22	.481	.42}	.414	.414	.414	.40
**	.444	.481	.421	.49}	.424	.41
84	.44)	.434	.424	.431	.424	.41
26	.46	.45	.44	.44	.44	.42
26	.47	46	45	.45	.45	43
87	.50	.49	.46	.45}	.45	.48
88	.53	.494	.48	.47‡	.47	44
80	.56	.51	.491	.48	.47	44
40	.60	.53	.50	.49	.48	.45



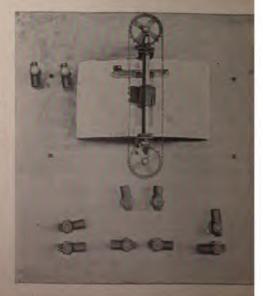
Switchboards.

The illustrations on this p show respectively the front rear of our standard set board for one dynamo and feeder circuit.

Switchboard Front.

We are prepared to furnish switchboards for any number or sizes of dynamos and for any number of feeder circuits.

Switchboard Rear.

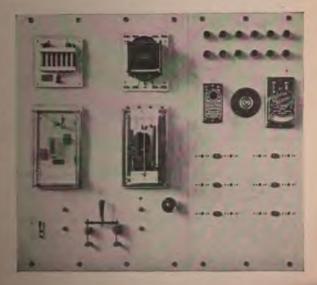




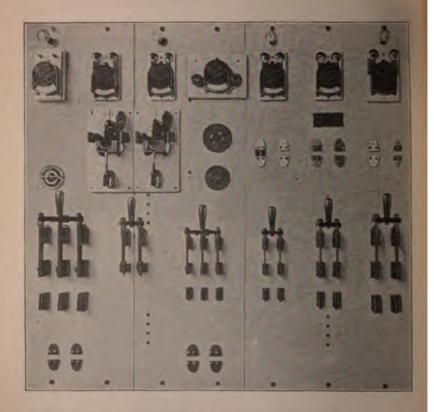
Switchboards.

This illustration shows a switchboard furnished with Type "Q" quick break switches for two dynamos and five line circuits.

rhis illustration shows combination switcheard for one incandeent alternator and c dynamo.



Switchboards.



Combination power and lighting board for two dynamos and four circuits.

Equipped with Western Electric ammeters and volt meters, and Western Electric type "E" switches.

It is almost impossible to standardize switchboards. We build switchboards in accordance with specifications and conditions.



Switchboard Clock.

This is an American Eight Day Eugine Lever Clock in a dust-proof case, designed especially for use on the Switchboard, where an accurate record of time is a valuable accessory to the proper running of a station.

The second hand is placed in the same 1 edition as is usually found on a watch. The movement can be easily taken from the dust-proof case. The porcelain dial is without feet and consequently is not liable to fracture. The regulator is of the micrometer pattern and allows of the closest regulation. The escapement is of the pattern known as the quick beat and is in a separate frame.

The movement is of the three plate type which permits of the removal of the main spring without disturbing the train or escapement.

The construction of the clock and working preportions of the movement from the main wheel to the balance wheel compare favorably with the very highest grade of English or French clocks.

The particular mounting of the main spring produces a uniform maintenance of the arc of vibration and the deviation from absolute correct time can be no greater on the eighth day than on the first, and after once adjusting the clock the result is great accuracy as a time-keeper.

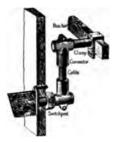
Watches curried by persons in a dynamo room are always subject to magnetism and a correct timepiece located on the switch board will be a useful article in any electric light plant

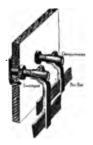
The dimensions of the Eight Day Switchboard Clock.

Width of back	. 51	inche
Length of back	.7	**
Depth	. 14	••
Diameter of clock	5	4

\$10.00

.leia-se 25571 Switchboard clock, nickel finish





Switchboard Fittings.

Clamps for Inside Bus Bars.

The connections from switches to bus bars are made

The stud extends back so that the connector on it is in line with the connector on the switch post; no bead is essury on the cubic.

Clamps for § x 14 in, § x 14 in, and 1 x 2 in, bus bur-can be furnished promptly. Connectors, switches and clamps are all numbered slike for capacity.

No. 1	being fo	r 50 a	mperes.	No. 6 b	ring for	100 a	mpr
No. 2	*	75	4	No. 7	•	600	•
No. 3	•	150	4	Na. 8		1200	•
No. 4		300	4	No. 9	44	2000	•
No. 5	44	450	4				

Prices quoted on application.

Clamp Connectors.

When space back of switchboard is very limited we make the connector on the switch post and clamp all one

piece.

This style made to order. In writing for prices give full information as to size and the quantity.

Connectors, with Set Screws, for Heavy



Nos. 65161 to 65171.

Chip

Chipped

Cholera





Nos. 67361 to 67371.

		Conductors.										
Chime	65161	"Ter	' Connector	for :	uch rod	, each	.25					
Chim-ra	65163	**		**		**	44					

65163 .. ¥ " 1.00 Chimerical 65165 ••

.. 14 1.40 Chemistry 65167 65169 .. 1 65171 .. " 1.75 .. ŧ •• 65173 Ellow Chipping ;" **39** .. ŧ •• 65175

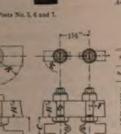
Chirp " **†** .. Clicked 65177 · · · ٠. Chicalrous 65179 •• Chiralry 65181 " į : .. " 1.40 Chordate 65183 .. į Chie 67361 Straight

.20 .. . Char 67363 .30 .. . Choke 67365 .. 1, "75 Choking 67367 " [Chiler 67369 ••

44. 1.30 67371









Switch Board Fittings .- Continued Fuse Posts.

Fuse Posts.

Cade Word	Lux No.						Price
Acenne	25573	No. 1	55 to	30	amper	es	\$-080
dopount.	25574	No. 2	50 to	75		4-17-2	1.00
Acorryg	25575	No. 2	75 to	150		There have	1.30
delana	25576	No. 4	150 to	300	9	******	1.90
Actionships	25577	No. 5.	300 to	450			3.00
Arknowledger	25578	No.6	4NO to	600	- 14		4.00
Adametedyeast	25579	No. 7	600 to	900		******	 6.10

Table of dimensions of fuse posts. Letters referring to diagrams.

-	of Past Foot	1		Lvim	ensione-In	ches.		
his.	Ampares	A	B	C	D	E	P	R
-100-100-	23- 20 30- 75 75- 150 150-300 200-450 450-600 600-800	11111	-	10 10 10 10 10 10 10 10 10 10 10 10 10 1	1000	*	***	1 11日 日本日

Table giving shop order numbers for parts of fuse justs.

-			OND	DE-NU	ABERS	ON PAR	ITS FO	R	
DE CUI	Name Part	Feli-Post	No. 1	No I	No 1	No 4	No 5	No 8	No. 7
No		Anger	25-00	26-25	75-100	150-300	300-450	100-000	800-800
103		Prot	1031	1032	1033	1034	1035	1036	1037
106	Wast	Sernw.		1042	1043	1054	1065	1046	1067
107	Post-	Nut	1074	1072	1073	1074	1065	1076	1067
108		r Screw	1091	1092	1093	1004	10%	1096	1007

Prices on Parts Quoted on Application.



Switchboard Fittings-(Continued).

Clamp Connections for Heavy Conductors.

No. 8980.





Nos 1804 to 1812.

List Print

8979 Straight Connection for 72 inch rod, each...... 1.10

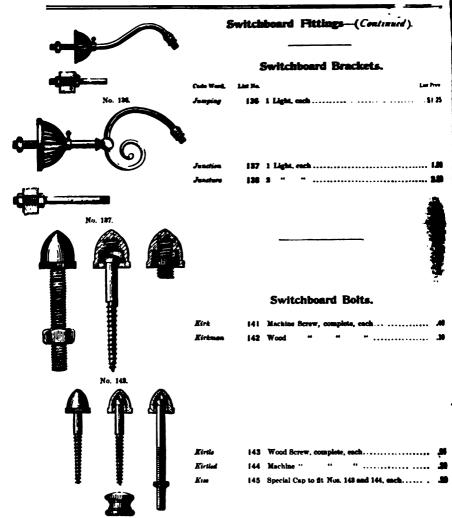
8980 Y Connection for & inch rod, each 1.13

Wire Terminals.

Chosply	1804	For No.	12	wire,	11. d. S.	U., per 10	0
Cheapness	1805	91-	10	**	- 14	- 12	
Cheating	1806	26	8	. 19	16	181	
Checker	1807	10	6	10	400	180	
Checkmate	IBOB	18	A	16	-1	9.0	
Cheerful	1809	197	3	**	44.		
Cheerfully	1810	2.00	2	- 10	***	- 9	-
Cheerily	1811	16	1		**	-4	
Cheering:	1812	194	0	145	**	- 11	*********

Switchboard Fittings-(Continued).

				٦	Vir	e Hol	ders	3.	
	Code Word.	List, Wo.							t Price.
Æ	('orcella	1813		l to				air	
	Conuctic	1814	_	io	100	**	••	•• · · · · · · • · · · · · · · · · · ·	
	Coomic	1815	100) to	800	**	"	• • • • • • • • • • • • • • • • • • • •	
	Conark	1816			400	"	••	••••••	
No. 1818.	Cinting	1817			200	••	••	• · · • · · · · · · · · · · · · • •	
30. 1014.	Court	1818			600	"	**		
	Covchant	1819			800	••	••	• • • • • • • • • • • • • • • • • • • •	
	CongA	1820			1000	••	**	• • • • • • • • • • • • • • • • • • • •	8.00
				В	us I	Bar S	tan	ds.	
	Consultry	1821	į	incl	a, esci	h	• • • • •		.50
هراث	Concri	1822	i	••	•				
T T	Covertly	1823	i						
1	Coverture	1824	i	••					1.25
	Coret	1825	i						1.50
.	Constas	1826	1	••			-		
W	Coveting	1827	11		**			• • • • • • • • • • • • • • • • • • • •	
ı	Constons	1828	14					• • · · • · · · · · • · · · · · · · · ·	
No. 1821.	000000		•					ing lengths: 1 mch, 14	
			Βu	18	Bar	Con	nect	tions.	
_	Corey	1829		f1				· · · · · · · · · · · · · · · · · · ·	.40
	Curard	1830	Ī	100	u, eac				.60
	Cowardice	1831	•					· · · · · · · · · · · · · · · · · · ·	
	Conardly	1832							
77	Crab	1833	,						
	Crabapple Crabapple	1834	•						1.25
	Crabbed	1835	1	••					
No. 1829.	Crabbedly	1836	11					.	
	Crabby	1837	14					· · · · · · · · · · · · · · · · · · ·	
						Split.			
_									
	Orack	1839	1	inc	h eac	•			40
	Orack Oracked	1838	į	incl	h eac	h			.40
	Cracked	1839	i			h			-60
	Cracket Cracker	1839 1840	*	**		h			.60 .60
	Cracked Cracker Cracking	1839 1840 1841	*	"	••	h			.60 .60 .80
9 0	Cracked Cracker Cracking Crackle	1839 1840 1841 1842	* * *	"	•••	h	· · · · · · · · · · · · · · · · · · ·		.60 .60 .80
9 6 No. 1638.	Cracked Cracker Cracking Crackle Crackling	1839 1840 1841 1842 1843	* * *		40°	h			.60 .60 .80 1.00
9 6 No. 1638.	Cracked Cracker Cracking Crackle Crackling Cradle	1839 1840 1841 1842 1843	1 t			h			.60 .60 .80 1.00 1.25 1.50
1	Cracked Cracker Cracking Crackle Crackling	1839 1840 1841 1842 1843	* * *		44°	h			.60 .60 .80 1.00 1.25 1.50



Nos. 148 to 145.

ARC SUPPLIES.

Miscellaneous.

Current Direction Indicator.

This instrument is placed directly in an arc circuit and visually indicates or shows the direction of the current, if desired, it can be made to close a local battery circuit so as to ring an alarm bell and trip an annunciator needle whenever the current flows in the wrong direction, the annunciator showing the number of the circuit that is misconnected.

The Indicator is well adapted for use upon arc circuits of both high and low tension systems of any manufacture.

Code Word.	List No.	List Price.
Eulogy	213 Each	\$20.00

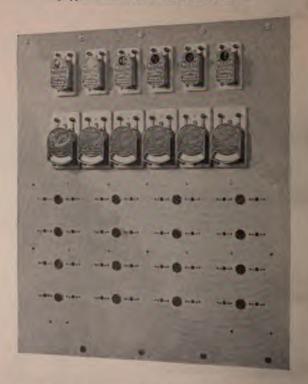


Arc Ammeter.

This Ammeter is designed for use as a station instrument. It is well protected by a sealed case; has no springs or permanent magnets; is dead beat and accurate within one per cent.

Arc Switchboard,

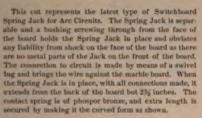
Equipped with Western Electric Instruments.



A Typical Switchboard constructed for six dynamo and ten line circuits. The boar constructed of marble, and for each dynamo is furnished an ammeter and polarity indice. Only specially selected marble is used for are boards and the workmanship is thoroughly anteed. Specifications for special boards will be furnished on application.

Arc Switchboard Fittings.

Improved Spring Jack.





Sarowal

Abaque

Na. 21351.

is in operation. The insulation is of hard rubber and of sufficient strength to stand any ordinary service. These plugs are made in two sizes, one for main cir-cult and one for transfer circuit.

 Sarcoda
 21351
 Transfer Plug
 4.00

 Sarcoda
 21352
 Main Plug
 5.00

Improved Plugs. The Safety Plug illustrated is of the sheathing type and readers it impossible to obtain a shock should the circuit be opened accidentally at the switchboard while making a change of circuits when the dynamo

Old Style Plugs.

No. 1176.

Dawning

1176 Disconnecting Plug, each 1.00

Day

1177 Main Plug, cach...... 1-50



Cleveland Arc Cut-out.

Code Word.	List No.		Section :
Editor	935	Each	12.00



Western Electric Building Switch.



Hope Arc Cut-out.

Damp	1115	Slate base	, each		CHARLEST CO.	4.7
Dampnon	1116	Porcelain	base.	each		0.0
Damael	1117	"	**	cara	movement, each	6.0



Hope Arc Cut-out-(Continued).

List Price.



1120 4 4 " with fuse, each 18.00



Dendify 1127 For Alternating Currents, Bi-pole, each 14.40



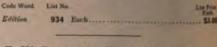
Bryant-Cleveland Arc Cut-Out.

This Arc Cut-Out is made entirely of porcalain and metal, consequently incombustible and moisture-

Proof.

The action of the commutator at the point of arealing or closing the circuit is entirely uncontrolled by the handle.

The binding posts are the well-known K. W. style, very secure and easy to wire.





F. W. Large Arc Circuit Cut-Out.

In order to comply with the requirements at the fine underwriters an absolute out-out must be placed wherever are wires enter or leave a building. The cut-out here shown is of an improved type, having been adopted by many of the large electric companies. It is fire proof, all the mechanism being mounted on porcelain, while the switching action is instantaneous in both directions, the operator having no control over it. It is, therefore, impossible for the confictor over it. It is, therefore, impossible for the confictor over or "opr," This rut-out is designed for heavy service, and will operate without arcing on from one to fifty lamps. 21079 Each.....

Suucebur

F. W. Small Arc Circuit Cut-Out.

This Cut-Out is intended for light service, such as frome to five lamps. It is designed for use in places who it would be inconvenient to install the larger size. The switching action is performed by turning a key who compresses a spring, then auddenly releasing it, causi the central porcelain disc to make one quarter revolutiont always in the same direction. This instantly switch the current off and on. This cut-out is admirably adapt for use in iron lamp posts where the cables come up frobelow. below.

Sauceman

21080 Each.....



No. 21080.

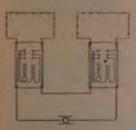
No. 2108L

Lightning Arresters for Arc Circuits.

Where are circuits enter or leave the station it is nece sary to place lightining arresters in the several brancher in order to protect the dynamos and apparatos in the station during heavy thunder storms so prevelent in semi-parts of this country. The lightining arrester here shows affords a path for the lightining discharge to earth, am should an are from any rause follow the discharge, it is

2108) Each







Automatic Circuit Controlling Switch.

This awitch is designed more especially for use with series are or other high potential circuits where it is de-sired to cut out and entirely insulate a Jine when not in actual service. It is entirely automatic in its action and never offers any appreciable resistance to the passage of current through itself. The construction is such that when current is supplied to its terminals that current will be established in the line in case the line is in proper working condition; if the line should be open the switch will again insulate the line and the current will flow directly through the switch encountering there only the resistance of a small solenoid would with heavy wire. If at any time during the operation of the line an acci-dent should occur causing the circuit to be opened, the switch will immediately insulate the line and provide a path for the current through itself. Before remaining permanently in that position, however, it will make a trial stroke so that if the continuity of the line has been re-established (as for instance by the dropping together of carbons in a lamp whose rod had become stack) that current will be re-established in the line as before.

The diagrams of circuits shows the usual way of connecting the switches to the lamp circuits—any number of switches may be used on a line, each one controlling a given portion. A single switch is capable of controlling a circuit of any number of lamps up to fifty. Prices on application.

Electric Clock Switch.

This Switch was designed for use in offices, show win-

dows, hotels, etc., or on any direct or alternating current circuit, not exceeding 125 volts of pressure. It operates both to turn on the current at whatever hour of the day the dial is set for, and later on to cut it off again at any desired time.

It is not a magnetic, but a mechanical switch, operated by means of a clock movement, which is wound when the switch is set,

The clock movement is protected by a next Iron Jap-ained case, with hinged door. The awitch part is free, and readily accessible. A case, enclosing the entire switch, can be furnished if desired. All the parts are insulated in the best manner, and the work is strong and substantial.

Mounted on slate base, capacity 10 amperes.

Code Word. Starton.

List No.

23078 Electric Clock Switch

Price List. . \$14.40



Arc Light Line Switches.

Code Word List No.



No. 21048.

Sam

Mounted on Slate.



No. 21050.

No. 21049.

Isolating Switch for Arc Circuit.

. _ ...

A simple and reliable Switch adapted for currents below 30 amperes, and which operates to completely isolate or remove the lamps from all connections with a circuit made with a circuit. Made with slate base and bronze terminals.

Samerra

21050 Each



P. & S. China Hanging Board.

No. 210**53.**

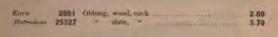


Arc Cut-Out Boards.

Code Word	List No.					Li	Each.
Karldom Amteriaer	2850 25326	Round,	wood,	-			\$3.00



No. 2851.





China Arc Hanging Board.

No. 8851, for series circuits, has automatic device which closes circuit if the lamp is dis-connected when the swhich is on. No. 8852 is for incandescent circuits, and the switch is also double pole and breaks in four

Code Word.	List No.		Price.
Dating	8851	For Constant Current, Series	
Daties	8852	For Constant Potential, Multi-	2.50
		ple Circuita	2.50



No. 21051.

Stationary Lamp Hanger.

With Isolating Switch.

By the use of this Hanger the lamp can be en-tirely disconnected from the circuit, and not merely shunted, as is the case with single pole switches. They are made for either wide or narrow frame lamps. Mounted on slate.

amurre	21051	Narrow	frame			 	600		٠.	 ٠,		 4.1
macitua	21052	Wide	- 04	-	160			(6)	100			5.5



Stationary Hanger Boards.—(Continued.)

Code Word. List No.

Mounted on Slatz.

For either doubte or single lamps.



Hanger Boards.

For Constant Potential Lamps,

21060 With Binding Terminals 2.10 21061 With Hook Terminals..... 2.10 Mounted on Slate.

No. 21062

Kelsh Arc Lamp Hanger Board.

21062 Each 3.50

Mounted on Marbleized State

No. 8705.

Arc Lamp Hooks.

8706 Ornamental, each

No. 8706.

No. 8707.

Captiont-

8707 Ornamental, each

Prices on Ornamental Brackets quoted on application

WESTERN ELECTRIC COMPANY.

Domestic Carbons.

Solid.

High Tension Series Arc. Specify when ordering whether moulded or forced.

		-	
Code Word.	List No.	Inches.	List Price. Per 1000
Salter	20968	7-16 x 12, plain	\$13.50
Saltern	20970	7-16 x 12, coppered	13.50
Salgiel.	20971	1-8 x 12, plain	14.00
Seltfest	20972	1-2 x 12, coppered	14-00
Saltgauge	20973	5-8 x 12, plain	
Saltgreen		5-8 x 12, coppered	
Beltier		9-16 x 14, plain	
Baltieroise	20976	9-16 x 14, coppered	
Seltierade	20977	5-8 x 14, plain	
Saltimbanco	20078	5.8 x 14, coppered	
Selting	20970	7-16 x 7, plain	
Saltire	20969	7-16 x 7, coppered	
Raltick	20081	1.2 x 7, plain	
Saltiskly	20082	1-2 x 7, coppered	
Saltishness		5-8 x 7, plain	
Saltjunk	20084	5-8 x 7, coppered	
Seltpeter	20963	1-2 x 9, plain	
Salties	20086	1-2 x 9, coppered	
Baltick	20067	5-8 x 9, plain	
Seltly		5-8 x 9, coppered	

Coppered Solid Forced.

For Low Tension Series Arc.

Beltmersk	20968	7-16 x	12	13.50
Saltmine	20969	1-2 x	12	14.00
Seltness	20981	5-8 x	12	20.50
Soltpan	20992	7-16 x	7	6.75
Saltata	20983	1-2 x	7	7.00
Seltperiate	20084	5-8 x	7	12.00

		Uppers—Soft Cored.	
Sault	21091	5-16 x 71-2	. 9.50
Sau neingbe	21092	3-8 x 71-2	. 12.00
Saunders	21093	7-16 x -7 1-2	. 13.50
Saunderoble	21094	1-2 x 71-2	. 16.50
Saunter	21095	9-16 x 71-2	. 17.50
Saunterer	21006	5-8 x 71-2	24.00
Saur	21097	5-8 x 8	. 25.50
Sauria	21006	11-16 x 8	34.00
Saurian	21096	5-16 x 10	. 13.00
Sauroid	21109	3-8 x 10	16.50
Saurophagu	21101	7-16 x 10	. 18.00
Seure	21182	1-2 x 10	22.00
Baveage	21103	9-16 x 10	24.00
Saveterile	21104	5-8 x 10	32.00
Bouterelle	21105	11-16 x 10	38.00



Lamp Hoods.

These Bloods are made of heavy galvanized iron, japanned, supported by iron frames, with a cast iron base, making the whole very strong and substantial.

The lamp is suspended from a hanging board provided with a hand cut-out, and firmly fastened inside the Hook.

Cost Ward	I -1 No	Liu Pi Ead
\$ 5000	21636 Each	



Euse 2001 Each



Lamp Hoods—(Continued)

Code Word.	List No.	List Prior.
Basel	2002	Bach\$25.00



Easily 2003 Each......20.00



Lamp Hoods.—(Continued.)

Code Word. <i>Es</i> pineer		Complete
Bahılatorian	21029	Hood only
Balutatory	21030	Side Rods and Bracket
Salute	21031	Cut-Out Board



No. 2887.





Domestic Carbons.

Solid.

High Tension Series Arc.

Code Word.	List No.	Inc	he	B.			List Pri
Salter	20989	7-16	x	12,	olain	 ٠.	
Seltern	20979	7-16	x	12,	oppered	 	 13.
Selgisk	20971				olain		
Balt/test	20972				oppered		
Saltgauge	20973				olain		
Saltgram	20074				oppered		
Beltier	20975				olain		
Saltionoise	20978				coppered		
Saltigrade	20977				olain		
Saltimbanco	20978				oppered		
Beltina	20070				olain		
Baltire .	20880				coppered		
Baltish	20981				olain		
Baltishle	20002				oppered		
Baltichness	20063		x		dain		
Saltjunk	20084	5-8	×		oppered		
Seltader	20085	1.2	ī		olain		
Saltime	20286		î		oppered		
Raltick	20987		ī		olain		
Baltly	20007		ī		oppered		

Coppered Solid Forced.

For Low Tension Series Arc.

Beltmersk	20989	7-16 x	12	13.50
Saltmins	20990	1-2 x	12	14.00
Baltness	20991	5-8 x	12	20.50
Soltpan	20992	7-16 x	7	6.75
Saltpen	20993	1-2 x	7	7.00
Seltperiate	20994	5-8 x	7	12.00

For Constant Potential Lamps.

			U	PP	e	rs	_	S	of	it	(:0	n	e	ı.											
Sault	21091	5-16	x	7	1	2										 		 		 				9.	5	Đ
Banacinabel	21092	3.8	x	7	1	2																	 1	2.	0	D
Saundere	21093	7-16	x	.7	1	.2													,	 			 1	3.	5	D
Saunderoblu	21094	1.2	x	7	1	.2														 			 ı	6.	5	D
Saunter	21095	9-16	x	7	1	.2																	1	7.	5	0
Saunterer	21096	5-8	×	7	1	.2		. ,									ì			 			2	4.	Ò	Ď
Saur	21097	5-8	x	8																 			 2	5.	5	ð
Sauria	21008	11-16	ı	8	٠.															 			3	4.	0	Ď
Saurian	21099	5-16	x	10																 				3.	0	Ď
Sauroid	21100	3-8	x	10				٠.								 				 			1	6.	5(D
Saurophagus	21101	7-16	ı	10	١.											 							 ı	8.	0	Ď
Saura	21102	1.2	x	10	١.															 			2	2.	0	ò
Saveage	21103	9-16	x	10	٠.	٠.		• •												 			2	4.	0	D
Sausswrits	21104	5-8	x	10	١			••												 			3	2.	0	D
Bantarelle	21105	11-16	x	10	١				_											 			3	8.	0	٥

Domestic Carbons.—(Continued.)

For Constant Potential Lamps.

Uppers-Soft Cored.

Code Word	List No.	
Sautern	21106	23-32 x 10
Sauregarde	21107	5 16 x 12
Sarable	21108	3-8 x 12
Saraous	21109	7-16 x 12
Sarage	21110	15-32 x 12
Suragely	21111	1.2 x 12
Karayi ness	21112	9-16 x 12
Suragery	21113	5-8 x 12
Saragium	21114	1-2 x 14
Sacana	21115	9 16 x 14
Surant	21116	58 x 14
Sace	21117	11-16 x 14
Sacrall	21118	84 x 14
		Lowers—Solid.
Satelog	21119	5-16 x 6
Saur	21120	38 x 6
Socia	21121	7 16 x 6
Saring	21122	12 x 6
Suringly	21123	7-16 x 7
Saringues	21124	1·2 x 7
Sacingsbank		9-16 x 7
Sacor	21126	58 x 7
Sucorily	21127	5-16 x 712
Sacoriness	21128	38 x 712
Sucorlean	21129	7-16 x 712
Sacorly	21130	1.2 x 71.2
Barrens	21131	9 16 x 71 2
Sacory	21132	58 x 712
Satoy	21133	12 x 8
Saroyard	21134	58 x 8
Sale	21135	
Saroje	21136	
Sampan	21137	• • • • • • • • • • • • • • • • • • • •
Sampline	21138	12 x 91-2
Sample	21140	38 x 10
Sampler Samuhoo	21141	7 16 x 10
Samulos	21142	1.2 x 10.
Samone	21142	38 x 12
Samone Samonapost		7-16'x 12
Samonipou Sanability	21145	15-32 x 12
Sanahiriy	21145	1 2 x 12
Sanablenes	21147	17 32 x 12
Sauation	21148	9-16 x 12
Sanatite	21149	5-8 x 12
Same	21178	

Domestic Carbons.—(Continued.)

High Tension Series Arc Cored.

Uppers-Cored.

Code Word.	List No.	Inches	List Price Per 1000.
Sauatirines	21150	7 16 x 12	10.00
Sunatory	21151	12 x 12	10.00
Sanbenito	21152	5-8 x 12	13.50
Suncebell	21153	12 x 14	11.50
Sanctebell	21154	9-16 x 14	14.00
Sanctificate	21155	58 x 11	, 16.00
Sanctificator	21156	11-16 x 14	
Sanctimoni	··21157	3 4 x 14	20.00
Sanctimony	21158	7-16 x 7	5.0
Sanction	21159	12 x 7	5.00
Sauctionary	21160	58 x 7	6.50
Sanctitude	21161	58 x 9	8.29
Sanctify	21162	38 x 10	7.2
Sandum	21163	1 2 x 10	8.25
Sauctus	21100		
Sand	21164	3-8 x 12	8.50
····		3-8 x 12	
Sanda	21164		9.00

"Helios."

Direct Current Carbons.

Cored.

M. Simerter	Inches	Price Milliometer Inches,	Pice
12 x 100 - 1	15 32 × 6 5 16	\$14.00 10 x 255 3.8 x 10	\$16.60
15 x 160 - 1	19 32 × 65 16 .	18 50 11 x 255 7 16 x 10	18 40
Da x 160 ' :	23 32 x 6 5 16	26 00 12 x 255 + 15 32 x 10	20.00
	546 x 712	9 60 13 x 255 1 2 x 10	22 15
	38 x 712 .	12 35 14 5 255 9 16 5 10	24 00
	716 \$ 712	13.75 15 x 255 19 32 x 10	27 50
	15.32 \ 7.1.2	15 00 16 \ 255 \ \ 5 8 \ \ 10	32 25
13 x 130 ,	12 x 712	16.50 18 x 255 23 32 x 10	40.00
14 x 190	9 16 x 7 1 2	17.85 20 x 255 25 32 x 10	48 (0)
15 x 190 🗀	1932 x 712 :	20 50 25 x 255 1 x 10	70.00
	58 x 712	24 (0) 8 x 305 5 16 x 12	15 40
18 x 190 , 3	23 32 x 7 1 2 🔒	$31.00 \pm 10 \times 305 \pm 3.8 \times 12$	20,00
13 x 205	12 x h	17 V) 11 x 3(5 - 7 16 x 12	22 (11)
16 x 25	58 x 8	25 75 × 12 × 305 1 15 32 × 12	24 (0)
15 25 3		33 00 13 \ 305 1 2 \ \ 12	26 40
			28 65
15 - 210	15 32 x 9 1 2 19 32 x 9 1 2	27 (9) 15 x 305 ! 19 32 x 12	33 00
100	1.7 .7 A 1. 1 L	31 () 10 () NAO 10 () 2 X 13	
	23 32 x 9 1 2	39 00 ; 16 x 305 5 8 x 12	38 (6)
8 x 255	5 16 x 10	12 90 18 x 305 23 32 x 12	50.00





Domestic Carbons—(Continued.)

"Hellos."—(Continued.)

Direct Current Carbons.

Solid.

dillimeters.	Inches.	Price.	Mülimeters.	Inches.
8 x 160	5-16 x 65-16	\$ 7.00	14 x 190	9-16 x 71-2
10 x 160	3-8 x 65-16	9.25	15 x 190	19-32 x 71-3
12 x 160	15-32 x 65-16	11.75	16 x 190	5-8 x 71-2
· 8 x 150	5-16 x 6	6.50	10 x 205	3-8 x 8
10 x 150	3-8 x 6	8.65	12 x 205	15-33 x 8
11 x 150	7-16 x 6	9.75	13 x 205	1-2 x 8
12 x 150	15-32 x 6	11.00	8 x 240	5-16 x 9 1-2
13 x 150	1.2 x 6	12.00	10 x 240	3-8 x 912
14 x 150	9-16 x 6	13.00	11 x 240	7-16 x 9 1-2
15 x 150	19-32 x 6	15.00	12 x 240	15-32 x 91-3
16 x 150	5-8 x 6	17.35	13 x 240	1-8 x 81-8
11 x 180	7-16 x 7	11.70	14 x 240	9-16 x 9 1-2
13 x 180	1.2 x 7	14.35	15 x 240	19-32 x 9 1-2
14 x 180	9-16 2 7	15.65	16 x 940	5-8 x 91-2
15 x 180	19-32 x 7	18.00	10 x 255	28 x 10
16 x 180	5-8 x 7	20.85	12 x 255	15-32 x 10
8 x 190	5-16 x 71-2	8.25	13 x 256	1-8 x 10
10 x 190	3-8 x 71-2	11.00	15 x 255	19-32 x 10
11 x 190	7-16 x 71-x	12.35	16 x 256	5-8 x 10
12 x 190	15-32 x 71-2	13.90	11 x 306	7-16 x 12
13 x 190	12 1 712	15.15	13 x 306	1-2 x 12

Helios Cored Carbons.

Alternating.

Millimeters	Inches.	Price.	Millimeters.	laches.
11 x 240	7-16 x 9 1-2	\$19.00	15 x 150	19-32 x 6
12 x 160	15-32 x 65 16	14.00		19-32 x 65-16
12 x 240	15-32 x 9 1-2	20.00	15 x 190	19-32 x 7 1-2
12 x 250	15-32 x 11	23.50	15 x 205	19-32 x 8
13 x 150	1.2 x 6	14.25	15 x 240	19-32 x 9 1-2
13 x 160	1-2 x 65-16	15.00	15 x 255	19-32 x 10
13 x 190	1-2 x 71-2	17.50	15 x 200	19-22 x 11
13 x 205	12 x 8	19.00	16 x 190	5-8 x 712
13 x 240	1-2 x 91-2	22.00	16 x 205	5-8 x 8
13 x 256	1-8 × 10	23.50	16 x 240	5-8 x 91-2
13 x 2HO	1 2 x 11	25.50	16 x 265	8 8 x 10
14 x 190	9-16 x 7 1-2	21.00	20 x 160	25-32 x 6 5-16
14 x 240	9 16 x 9 1-2	25.50	20 x 240	25-22 x 91-2

Imported Carbons.

"Sun-Schmelzer-Nurnberg."

Cored Carbons for Direct Current.

Cede Word.	List No.	Diam.	Diam.	Length in ins.		List Price Per 1000
Bandmyrtis	21198	11	7-16 x	71-2	• • • • • • • • • • • • • • • • • • •	\$ 14.70
Bandmartin	21199	11	7-16 x	10	• • • • • • • • • • • • • • • • • • • •	19.50
Bandpaper	21200	11	7-16 x	12		23.00
Sandpiper	21201	13	1-2 x	71.2		17.20
Bandpride	21202	13	1-2 x	10		23.50
Sandrock	21203	13	1-2 x	12		28.00
Bandomell	21204	14	9-16 x	71.2	• • • • • • • • • • • • • • • • • • •	19.00
Bandstar	21205	14	9-16 x	10		25.25
Bandstons	21200	14	9-16 x	12		30.30
Sandetoria	21207	15	19-32 x	61.2		18-60
Sandtube	21296	16	5-8 x	7		23.00
Sandienep	21209	16	5-8 x	71.2		25.25
Bandwick	21210	16	5-8 x	10		33.80
Bandworm	21211	16	5-8 x	12	. . . 	40.50
Sandwort	21212	18	11-16 x	10	· • • • • • • • • • • • • • • • • • • •	43-00

Solid Carbons for Direct Current.

Bandy	21213	8	5-16 x	6	7.4
Bane	21214	8			8.8
Baneness	21215	8	5-16 x	91.2	
Bang	21216	10	3-8 x		9.3
Sangares	21217	10	3-8 x	61.2	9.
Sangfroid	21218	10	3-8 x		11.6
Sangiae	21219	10	3-8 x		14.
Sangroul	21220	11	7-16 x		10.3
Bungnifler	21221	11	7·16 x	7	12.0
Sanguify	21222	11	7-16 x	71.2	13.0
Sanguinary	21223	11	7-16 x		
Sanguine	21224	11	7-16 x	9 1-2	
Sanguindes	21225	11	7-16 x	12	20.
Sanguindy	21226	13	1.2 x	6	
Sanguinity	21227	13	1-2 x		14.5
Sanhedrim	21228	13	1.2 x	71.2	15.
Banicle	21229	13	1.2 x		
Sanies	21230	13	1.2 x	19	25.0
Sanious	21231	14	9-16 x	7	
Saniberial	21232	16	5-8 x	7	21.

Cored Carbons for Alternating Current.

Sanitarinm	21233	13	12 x 71-2	21.25
Scritary	21234	13	1-2 x 912	27.00
Banity	21235	15	19 32 x 7 1-2	27.15
Banjek	21236	15	19-32 x 9 1-2	34.50
Bank	21237	16		39.50



Imported Carbons

Wertheim

LENGTHS.								
Diam Inches	Ginch per 1000	7 Inch per Inco	8 Inch per 1000	9 Inch per Lucy	10 Inch per 1940	11 lock per 1000	12 les	
·	\$22 00	\$22.00	\$23 00	\$23.00	\$21 m	\$21 O)	521 W	
6	i 23 co j	24 (0)	23 00	26.00	27 00	2500	250	
· .	j 24 (m)	25 (a)	26 00	27 00	25 W	20 W	30 141	
Ž,	26.00	27 (0)	29 (0)	30 00	32 00	33 0∪) <u>ա</u> յլ դալ	
rie M	27.00	25 (1)	30 (1)	31 00	31 00	34 00	36 (b)	
11	25 0)	39.60	31 10	33 00	35 00	36 W	35.14	
ä	29 00	31 00	33 00	34 00	36 00	38.00	#) U	
ς.	32.00	35 (0)	37 (0)	40 0)	42 00	44 00	47.0	

 C4

Diam. Ichrs	Det 10 m	7 Inch per line)	8 lach per 1000	9 inch	10 lach per 1909	1 i foch per 1660	12 lack per Mad
١,	1822 (0)	\$22 (B)	£23 (0)	\$21.00	\$25.00	\$25 (N	£96.00
à.	24 00	25 (0)	26 (0)	27 OJ	25.00	29.00	30.00
4	25 00	26 (0)	27 00	28 00	29.00	39.00	12200
/e	27.00	25.01	30,00	31 00	33 (k)	34 00	35.00
17	25 (0)	29 (0)	31.00	32 (0)	34 00	35 (0)	37.00
1:	29 (0)	31 00	32 00	31 (0)	36.00	38.00	39.00
	30 60 [32 (0)	31 00	36 00	38.00	40 00	42.00
	33 (4)	(4) (4)	38 (0)	41 (0)	43 W	46 00	48 OH
it	36 (6)	39 (0)	12 (1)	45.00	\$2,00	50 (a)	53.00
12	37 00	(O O)	43 (k)	47.00	່ວບວ	33 00	56.00

For Direct Current Arc Lamps. Soft Cored Uppers. Dann Length 199 | 1 Dann Length 199 |

100 mm m m m m m m m m m m m m m m m m m	\$14 70 17 60 19 00 25 50 33 75 44 00	10 m	\$19 70 23 70 25 50 34 30 43 15 53 75	7 12 m 1 12 m 1 12 m 1 12 m 1 12 m	\$23,40 20 15 30 50 41 00
		Solid Low	ers.		
Diam eter Length	1'- r 	Dinas eter Length	Per 100.	Diam- eter Longth	Per Hee
A	\$ 7 (0 9 30 10 40 12 80 12 15 14 90 16 25	7 m 7 7 m 17 x 7 y m 10 x 7 y v 10 x 7 y v	\$21 60 8 75 11-80 13 15 16,15 15,40 17 20	A X 913 in d X 913 m d X 913 m	411 15 14 75 16,60 30 40 17 70 21 50
		lectra" Solid for Enclosed Ar			Per lute

				Far time.			-		Fer Julio
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				\$1.00	- 7	١	ñ,	"	 24 9
ŀ	;	: •		23 (4)		•	16	••	 15 20
		- 6		19 00		*			
•	;	5.	••	17 40	:	*			
		.5		15.85	ŧ		6	••	 15,20
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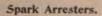


No. 21355

Spark Arresters-.

Arrester No. 21355, made with heavy frame and fine wire game. Hinges at back and flued with latch in front. Standard size 12 inches high; diameter at buttom 10 inches; diameter at top 634 inches.

Code Ward	List No.	List Pric Each	0.
Secolesana	21355	Each \$4.0	Ò



Perforated.

These Arresters are made of perforated steel sheet, with a rim of thin iron sheet which rests upon the globe of the lamp. They awing open with hinges at the back. Made in three different sizes adapting them for use on Western Electric Are Lamps. With slight alterations they can be used on Are Lamps of other

alterations they can be used on Arc Lamps of constandard makes.

Approved by the Hoard of Underwriters and are especially indersed as being a perfect safeguard against fire and insects.

They are thoroughly Japanned,

When ordering specify style of lamp on which these Arresters are to be used.

Sapindus 21267 Each 2.60





No. 21267.

No. STML

Carbon Bags.

8725	Tin Carbon Case	 3.0

Ebenszer 8726 Estra Heavy Leather Carbon Case 4.25



No. 21055.

Rae Store Reflector.

For T.-H. Double Carbon Lamps.

Has a special opal shade which concentrates the b Has a special opal shade which concentrates the unit of the light on the goods, thus utilizing the light con-monly wasted on the ceiling. Combines the intensity of the arc-lamp with a uniform and effective distribution of the light. Also has a clear glass chimosy (with opal ver-tilating top) which serves as a spark arrester, this making a complete fitting for Arc Lamps in store or thorwindows.

Does not interfere with the trimming of the lamp Approved by New York and Chicago underwrite

Code Word Lint No. Sambo

2 in Fine. Each. \$5.00 21055 Complete

Cutter's Globe Holder.

For T.-H. Arc Lamps.

'A Time Saver and a Globe Saver."

Takes the place of the sliding tube and set serew for merly used. It has no tube to dent and crack, and as serve to jam or bend. A quarter turn of the ring allow the globe to be lowered or raised, and another quarter turn removes it entirely. It is simple, strong and positive in its action. The globe is held securely when raised, yet can be instantly lowered without the use of tools.



No. 21056.



No. 21057.

Pattee Lamp-Hour Recorder.

21056 Rod and Ring complete

"A Common Sense Meter for Arc Lamps."

IFATENTED.I.

Has a fifteen day clock movement which is controll Has a lifteen day clock movement which is controlled by an electro-magnet so as to keep an accurate count of the burning hours. Needs re winding but once a month twhen the readings are taken). The magnets consume an impreciable amount of energy and the reading is easily checked by comparison with a watch, so that there can be no complaints from the consumer.

It is simple, well built and practical

Sameness 21057 Complete,



No 696.

Arc Lamp Globes.

Our Arc Globes are of the best quality of glass and uniform in appearance. They are carefully packed, but shipped only at owner's risk. Two dozen globes are packed in regular size cask, for which we charge \$1.50 extra nct.

	_			•		
			Clear.			
Code Word.	List No.	Dameter. Inches	Bargas.	Top Open- ing. Inches.	Bottom Open ing. Outries Diam Inches	List Price
Kinnel	626	12	13	6	24	811.00
Kiming	627	13	13	8	82	11.00
Kitchen	628	12	13	8	5	11.00
Kita	629	12	13	74	84	11.00
Kitting	630	12	10	8	4	11.00
Kitten	631	12	12	8	5	11.00
Knack	632	12	19	8	31	11.00
Knachiek	633	12	11	9	44	11.00
Kness	634	11	12	8	44	11.00
Knoory	635	11	12	8	49	11.00
			Opai.			
Knoolek	636	13	12		24	12.60
Engelskiy	637	12	12	8	3 <u>1</u>	12.00
Engviehness	638	12	12	8	5	12.00
Ener	639	(2	12	74	84	12.60
Kneel	640	12	10	8	4	12.00
Knooled	641	19	18	8	5	12.60
Knooler	642	12	12	9	24	12.00
Kneeling	643	13	11	9	44	12.00
Knostingly	644	11	12	8	44	12.00
Knoopen	645	11	13	8	4	12.00
			Ground.			
					_	
Knell	646	13	12	6	24	12.00
Knelt	647	18	12	8	81	12.00
Knight	648	12	12	8	5	12.00
Knighted Knighted	649	12	12	74	85	12.00
Knighthood Knighting	650	†2 12	10	8 8	4	12.00
• •	651	12	12 12	8	5	12.00
Knightle m Knightly	652 653	12 12	12		84.	12.60
Knignuy Knit	654	12	11	9 8	41	12.00
Knstler	655	11	15	8	4	12.00
a niter	900	11	13	•	4	12.00

Arc Lamp Globes .- (Continued.)

Globes for Western Electric Arc Lamps.

Arc Light Globes can be furnished in colors, but prices are governed by the quantity. In handling Arc Light Globes extra charge is made for packing when orders are less than original packages.



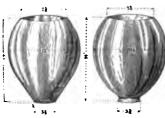


No. 21003.

Clear.

Code Word.	List No.	Diam. in ins,	Height inches.	Top Opening in ins.	Bottem Opening in ins.	List Price Per dor.
Salutiferous	21033	1014	10	8	434	\$11.00
Salcability	21034	12	12	8	414	
Salcable	21035	12	14	7 %	31/4	14.00
Saleablences	21036	12 ×	14	734	3 X	14.00

One-Quarter or One-Half Ground.



ai l
No. 21036.

Salrage	21037	101/4	10	8	416	12.00
Saltatella	21038	12	12	8	414	12.00
Salcation	21039	12	14	7 X	81/2	16.00
Salcatory	21040	12 💢	14	7 %	3%	16.00
		Full G	round o	r Opel.		
Salce	21041	101/2	10	8:	4%	13.00
Salcer	21042	12	12	8	4%	13.00
Saltershaped	21043	12	14	7×	3%	18.00
Sali	21044	12%	14	7,4	334	18-00

Alabaster.

Salrific	21046	7	10	7	7	20.00
Salco	21047	7	436	7.	7	20.00

No. 21033 is for the old style, low tension Western

Electric Are Lamps.

No. 21034 is for both the wide and narrow frame West ern Electric Standard Lamps; also for either the Monitor or Dupley Lamps, both wide and narrow frame, and the old style double Carbon lamps.

No. 21035 is for the ornamental series lamps and the

ornamental constant potential lamps.

No. 21036 is for the encased single lamps and new style double Carbon lamps, narrow frame.

No. 21046 is for ornamental series single Carbon lamp litting above the regular globe.

No. 21047 is for the ornan ental constant potential lamp fitting above the regular globe.

Both No. 21046 and 21047 act in a measure as spark

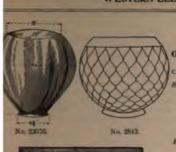
arresters, as all of the working parts, the carbons and carbon rods are within an enclosed space. The use of these globes meets the approval of the underwriters.





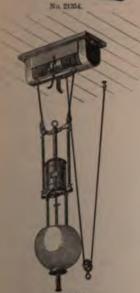


No. 21047.









Showing Lamp stinched.

Arc Light Globes-(Continued.)

Globes for Western Electric Arc Lamps-(Continued.)

Bitty	23076	1236	12	8	434	16.00
Almye	Globe for	Western	Electric	Focusing	Chain)	Lamp.

Globe Nets.

Static Arresters.

Electric discharge from belts will often perforate the insulating material of a dynamo or of cables connected thereto. Our surveiters form a high resistance path for the electrical discharge from the frame of the dynamo to ground. They are made in two styles, No. I Graphite, No. 2 Liquid.

Saroudern	21353	Graphite,	each	99901211221	-	1:40
Sarroid	21354	Liquid	4	***********	COMMETTER.	1.70

Improved Adjustable Lamp Hanger.

This Hanger is designed for use with any form of are lamp, either high or low tension, and is well apapted for operation of are lamps upon incondescent circuits. The important features in connection with this hanger

The important features in connection with this hanger are the ampension of the lamps by the conducting cords direct, insuring perfect electrical contacts and adequate support. The ratchet and arm are so combined with the rope used in raising and lowering the lamp, that breakage of the rope or cardess haudiling cannot cause the lamp to fail. The automatic switch so constructed that when the lamp is lowered it is completely disconnected from the circuit and when raised to the proper height it is again placed in circuit—this being done automatically insures absolute safety for the attendant and avoids interference with other hungs on the same circuit.

interference with other lumps on the same circuit.

These Hangers are mounted upon slate bases, equipped with brass terminals having perfect electrical connection with the roller mechanism and switch. The roller is made of east iron and coated with glazed enamel, then covered with sheet absetos, thus forming a positive insulation. An enameled iron cover is provided which adds to the appearance and serves as a protection to the cords and working parts. Conducting cords of any desired length within the capacity of the roller will be supplied, adapting the hanger for use on ceilings varying in height twenty-five feet down, or to be readily adjusted to different heights as circumstances may require.

may require.

This hanger has been approved by the Board of Underwriters.



No. 23077.

Bell Hanger.

The use of "Bell Hangers" for Arc Lamps used outs is becoming general, and is quite necessary when machines of from 60 to 125 lights capacity are used, ordinary form of lamp suspension has not sufficient is fation where such high voltages are used, and we is designed this type of hanger with a view to overcome such troubles as are caused by poor insulation, inscient support and contact at connections to circuit.

Code Word.

List No.

Billure

23077 Bell Hanger



No. 21358.

Cut-Off Switch.

The complete Cut-off Switch is mounted on alst The complete Cut-off Switch is mounted on state, and contacts are so arranged that no are can be made in throwing on or/off. The lamp is suspended from the hook in center, and is not in any manner dependent on the circuit wires for support, connection being made with circuit by means of plugs and suitable spring jarks, enabling the removal of the lamp from the circuit to less time-than one-half minute, and with no personal danger. The casing and bell covering insulator are of metal, and render all the contacts thoroughly water-proof.



No. 21359.

Bell Hanger and Cut-Off Switch Combined.

It is advisable in case of high voltage to use the lieff Hanger in connection with the Cut-off Switches to in-sure perfect artety. This combination is shown in illustration No. 21359.

Sarcologist 21359 Complete, with bell hanger.





No. 20856.



No. 10777.



Fletcher Insulating Arc Lamp Hangers.

(PATENTED)

Are not only convenient for attaching lamps to their fastenings in all positions, but save loss of current from any and all conditions to which lamps may be subjected.

Cade Word.	List No.	List Price
Ecliptic	8703	Each\$0.35

Fletcher Insulating Lamp Hanger.

Three Knobs.

(PATENTED.)

Same as No. 8703, with the addition of a knob on each side, to which current wires may be attached before entering binding posts of arc lamps. Especially useful where commercial lamps are placed in front of or inside stores, hotels, theatres, etc.

Salicine 20895	Complete	4
----------------	----------	---

Cutter Revolute Insulator.

For Arc Lamps.

Has the insulating knob mounted on a porcelain base so as to turn freely, and is secured to the ceiling by two screws. Makes a firm support with a double insulation between the wire and the ceiling.

between the wire and the ceiling.

The insulating knob can be easily removed and the wire placed above it, taking the weight off the tie wire.

feconduct 20777	Complete, each ,			12
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Cutter Ceiling Hook.

For Arc Light Wiring.

A simple, compact and strong insulator for supporting indoor are lamps. The shell and hook are of maileable iron, while the porcelain is solid at the back so as to esclude moisture. The hook is so shaped that the lamp cannot be accidentally lifted off it in trimming.



Cutter Arc Insulator.

It will insulate the frame of the lamp from the lossing rope or auspension hook.

Made with a double petticoat hard rubber bell, which forms an effective watershed.

Sufe

20776 Complete.....

Cutter Trimmer's Snap Rope.

Consists of a 30-foot length of half-inch rope with a Consists of a 30-foot length of half-inch vope with a snap-hook at one end and vix rings clamped to the rep-near the other end. This is used with holsting repr-ending in a ring at the pole lock, and is carried by the trimner on his rounds. The rings on the rope via readily be set at any desired points -u as to vary the length of the "snap rope" to suit the varying height of lamps at different crossings.

Salicylic 20897 Complete

1.25



No. 20807.

No. 20898.

Cutter Pole Lock.

(PATERS APPLIED FOR 2

A weather proof lock for securing the end of the head-ing rope, as used with arc or incandescent any sales lamps. Is quickly put up and prevents tampering with

Has the back curved to fit the pole, is strong and jet feetly weather-proof. The only pole lock adapted for electric light suspensions.

Salirylans 20898 Complete ...



No. 20899.

Bulliance

Fletcher Improved Pole Padlock.

Very necessary for use where flexitide from cord is used with ring attachment at end. By using this Padlock the trimmer needs only a brille-map and piece of sope of sufficient length to lower his lamps.

20889 Complete



Lamp Cross Arm.

List No. List Price. \$ 0.25



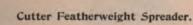
Cutter Combination Cross Arm.

Combines the flue and weatherproof Cutter's
Are Insulator, with a spreader cross-arm for
the line wires. The cross-arm is of enameled
wood, stipped with metal ferrules to prevent
schuling.

Safeguard 20778 Complete -60

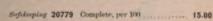


Fletcher Insulated Cross-Arm.



For Arc Light Wires.

Is readily fastened to the wires running to suspension lamps so as to keep them at a dis-tance of seventeen inches from each other. Made of enameled wood, metal tipped with porcelain insulators. Weighs less than eight ounces.





No. 2000).

Cutter Brace Arm.

This Brace Arm consists of an insulating arm russ Brace Arm consists of an insulating arm securely bolted to a specially designed plate which fits the pole. It is more easily and more quickly put on than the ordinary cross arm with its pins and insulators, besides making a much neater job.

Each. .35 Sallathery 20880 Complete



Windlasses.

Western Electric.

The Western Electric Windlass was designed for a quick-mining, self-locking and absolutely safe windlass. The drum is large and entirely enclosed, gazage a sixt of the top for the wire to pass through, and it is thoroughly also through

sheet-proof.

The self-locking device on the side makes it impossible to release without the sid of the special crank.

It is light, compact and durable, and is easy to put in service and will fit any size of pole.

Code Word.	List No.	Li	Per
Sake Sacker Sackeret	20866	Complete	\$3.1E 2.5E



No. 20868 and No. 20869.





Sal

Cutter Combination.

Combines the extra leverage of a geared windlass with the safety of a locking windlass, and the low cost of a plain windlass. The plation is detachable, and is secured to the light nandle, which also operates the locking cam-One of these plation handles is sufficient for all the wind-

One of these phinon andres is sufficient for as the wise plasses on a trimmer's route.

You can use this device as a plain whollass for quick lowering, and then use the gearing in raising the lamp. This windlass will take fifty feet of five-aixteenth inch cable, or forty feet of three-eight inch.

	Without Handle	
20869	Plulon Handle	1.00

The Fletcher Safety.

For Wood Poles.

With Lock and Key.

2000	flesible cord	2.50
8803	Fletcher's Safety Windlass (takes 75 feet flexible iron cord, or 40 feet rope)	3.00
8804	Handle (or Crank) for either above Windlames.	1.00
	For Iron Poles.	
20870	Windlass (takes 35 feet iron flexible cord)	3.50
20871	Windlass (takes To feet iron cord or 35 feet half-	4.00

20872 Handle (or crank) for above



No. 89 G

Fletcher Sleet-proof Pulleys.

Code Word	List No.				List Price.
Edger Edge Edgereise	8806		M-inch	roperope	. \$.75

Edible

Salary Sule



Fig. 2.

No. 900.



Fletcher "Sure Grip" Sleet-proof Pulley.

The danger and expense incident to the falling of are iamps from defects in pulleys used with rope or cord suspension, has suggested the need of a good sustaining pulley which, when lamp is drawn up, would hold it rigidly in position. The Fletcher "Sure Grip" Sleet-peoof Pulley does this in a simple, effective manner.

No care is required on the part of the trimmer, nor is any estra weight added to weight of lump when going into suspension; when lamp is in place high winds cannot release it, and trimmer is required to use only the ordinary amount of exertion in lowering it.

960 Fletcher "Sure Grip" Sleet proof Pulley (takes 1/2-luch rope)..... Includes everything necessary except rope.

Fletcher Automatic Pulleys.

20886	Automatic Suspension Pulley.	1.0
20887	Automatic Traveling and Suspension Pulley	1.35
20888	Automatic Mast Arm Pulley	1.10

Fletcher "Safety Lamp Support."

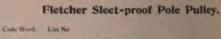
Designed especially to be used where Pulleys are already up; can be used with any Pulley, either Sleet-proof or open, and saves the lamp from falling should

Salebroun

(Above price does not include Pulley.)

No. 968.





Ediet Ediper Fletcher Swivel Pole Pulley.

Solamany 20884 Each





No. 8810.

Fletcher Double Wheel Sleet-Proof Pulleys.

Edit

Edify 8810 Takes i inch rope

Edifying 8811 Jumbo (takes i inch rope) ...



No. 8704.



No. 20885.

Fletcher Duplex Sleet-proof Pulley

With Two Wheels.

8704 Takes i luch rope

Fletcher Twin Sleet-proof Pulley

Salamstone 20885 Takes 1 inch rope



Cutter Lamp Supporting Pulley.

A really weatherproof pulley for arc lamps. Entirely automatic, with no cams or pawls to get out of order. Catches the lamp when raised, releases it when about to be lowered, and oever fails. There is a dead stop to the rope in each case so that you cannot pull it too far.

List Price. 20889 Complete, with Hook Knob





Cutter Swivel Pole Pulley.

Is swiveled so that it can swing sideways and keep in line with the hoisting rope. The supporting plate is made of malicable iron and curved to fit the pole. This pulley avoids all chafing of the rope on the edge of the cusing and thus saves the wear on the rope.



Cutter Mast Arm Pulley.

This is a form of the lamp-supporting pulley with a special clamp to fit iron pape 1% or 1½ in, inside diam eter, as commonly used for mast arms.

Has all the good feature of the regular lamp supporting pulley, and has holes in the head-piece so that the strain rods can be run direct to this.

20891 Complete



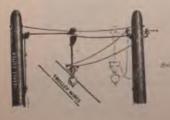
No. 20892.



No. 20893.



No. 2 0894.



Cutter Interchangeable Pulley.

(PATENT APPLIED FOR)

A thoroughly weatherproof pulley which will fit any thing from a 3-16 inch suspension wire to an 8 inch polities at double grooved clamp to fasten it to the suspension wire, when it is used as a center pulley. By opening out the clamp it forms a pole-plate which fits the curved sof face of the pole and which makes a fine swivel pole pulley.

Strongly made with malleable iron clamp.

Code Word.	List No.			Lin Print
Baliant	20892	Center Pulley, co	mplete	3 44
Solie	20893	Pole Pulley,		

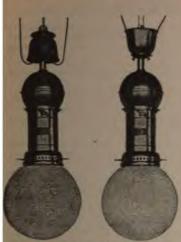
Cutter Running Pulley.

(retriaries)

The only safety pulley made for use over trolo? when. Holds the lamp securely when raised and allow it to be lowered close to the pole without interfering with the trolley or guard wires.

Furnished complete with covered "traveler" shrave, mallestile from book knob and adjustable clause stop.

20894 Complete



dapted for Outdoor Use. Adapted for Indoor Use.



ready for trimming

Western Electric Long-Burning Enclosed Arc Lamp.

The first illustration shows the lamp arranged for outdoor use. The bell which encloses the rheestat is turned down. The position of the bell can be changed to that shown in the illustration of lamp for indoor use. The stem of the lamp can be made any length to suit the height of the ceiling.

The third illustration shows the manner in which the globe is handled and the lamp trimmed. The globe is lowered and is held in position as shown by the construction of the lower portion of the carbon holder or side arm.

The lamp requires half-inch carbons, one 12 inches long and one 5 inches long.

The fourth illustration shows the mechanism in plain ylew, and in order to get at this mechanism all that is necessary is to slip the shell dowe. The switch is of a quisk break pattern and can be reached and menipulated easily from the ground with a pole. The switch handle is just above the name plate as shown in the illustration. The lower carbon holder and enclosing globe are made removable, simplifying the triuming. The clutch mechanism requires the least amount of energy to operate it, roller bearings being used to lessen the friction.

There is no shadow cast by the globes. They are a true sphere in shape and closed at the bottom.

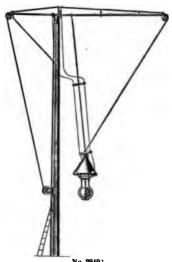
The lamps can be operated singly on 110 volts, two in series on 250 volts, or five in series on 550 volts. They distribute light uniformly, burn steadily, are noiseless, and the mechanism is simple and strong.

The standard lamps are of a dark or oxidized copper finish.

An ornamental brass lamp can be furnished and also other finishes upon special orders.

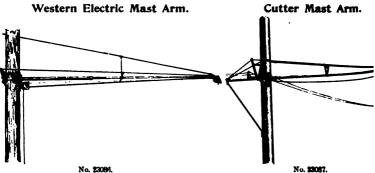
Prices on Arc Lamps quoted on Application.

The Brady Mast Arm.



Bar

No. 2848. Eagle 2848 15 Foot Extensi 15 Poot Extension, each.... Each additional foot.....



No. 23086.

Silveriese 23086 10 Foot Mast Arm, including two covered pulleys ... \$12.00 Each additional fout75

Windlass for Mast Arm extra.

Silverly 23087 12 Foot Cutter Mast Arm com-plete with lamp supporting pulley at outer end and covered pulley at pole Each additional foot......

Windless for Mast Arm extra.



No. 21085



No. 21087.



Incandescent Arc Lamps.

For Continuous Current.

The advantages of operating arc lamps on incandes-ent circuits as a matter of convenience, has of late years been fully realized.

The lamps are placed two in series on a circuit of 110

volts, and are adjusted to consume 10 amperes of current. Each lamp requires 45 volts to maintain a nominal 2000 caudle power and the necessary amount of resistance is placed in circuit to compensate for the volts above the

placed in circuit to compensate for the volts above the number used by the two lamps in series.

By dispensing with the ordinary series magnet in the lamp, and providing the feed magnet with cut-out device adapted to switch the feed magnet out of circuit auto-matically when the carbons are consumed to a certain point, any possibility of a burn out in a lamp is avoided, The electrical and mechanical arrangement of the lamp is such that the carbons cannot become short-cir-cuited while the lawn is in correction. Thus where

lamp is such that the carbons cannot become short-cir-cuited while the lamp is in operation. Thus when a number of lamps are operated in series on the same cir-cuit, they must necessarily be of the same candle power. The resistance used with the lamp is connected directly to it as shown in the illustrations, and obviates the disfig-urement of the lamp structure. It also facilitates the hanging of the lamp, and overcomes the objections made by the Fire Underwriters to the ordinary form of resist-ances which are inclosed in boxes placed upon the wall. This resistance may be varied according to the voits lost in the wiring. When it is not convenient to have the resistance boxes in place of the coils. resistance boxes in place of the coils.

Code Word.	List No.		List Price.
Saucianon	21085	Plain, with resistance coils	
Saucgbark	21086	Plain, without resistance colls	30.00
80	21087	Ornamented, with resistance coils	48.00
Sauerkreut	21088	Ornamented, without resistance coils	44.00
Saul	21089	Resistance Box, only	. 22.00

Hood for Incandescent Arc Lamp.

With Resistance.

Saulie 21090 Complete 10.00



No. 20873



The Kreuger Theater Arc Lamps.

This tamp was designed and is especially adapted for use in theaters, halls and public buildings, and is without question the best means for obtaining brilliant lighting effects for stage work. It takes the place of the calcium light, and is far superior to it in many respects. It is easier to transport, is less dangerous, more reliable, and far more economical.

In the accompanying cut the lamp is shown attached to its supporting stand, equipped with a silvered persbolic reflector, but the lamp is so arranged that the reflector can be quickly and easily removed, and a less bot or Boomerang substituted for it, making it possible to use a single lamp for varied effects.

The illuminating power of the lamp is equal to 2,000 candies, and owing to the simple but ingenious regulating mechanism, the light is maintained at a very constant strength. The lamp is practically noiseless is its superation, and owing to the entire absence of any devices depending upon gravitation in the regulating mechanism, the lamp can be inclined to any desired angle without interfering with its operation and without re-adjustment. In operating the lamp, connection can be made direct to the supply wires of a 110 voit constant potential lighting system, observing that the current passes downward through the carbons, and under these conditions the rhecatal in the perforated cone at the base of the lamp will restrict the current passing through the lamp to the proper strength.

proper strength.

Attachments for Kreuger Theater Lamp.

The lens box is used when it is desired to c

The lens box is used when it is desired to concentrate the rays of light more or less according to sidjustment. It is very useful in cases where it is desired to throw a strong stream of light upon a moderate sized object upon the stage, or to follow an object in its movements.

The Boomerang is used when a uniform dispersion of light over a considerable area is desired, which result is secured by means of a ground glass front. In frost of the ground glass is provided a color frame, upon at both sides so that frames can be slid through in succession and the colors changed without showing the white light.

These lamps and attachments are carried in stock and can be supplied promptly on receipt of order.

		applied prompay on receipt or most.	
Code Word.	List No.	Ling	8
Salacions	20873	Lamp, Stand and Itheostat 59	0.1
Balariously	20874	Portable Lamp Rheostat 2	
Ralacity	20875	Lens Box	
Salad	20876	Single Boomerang	а
Salade	20877	Double Boomerang	Ø.
Salading	20878	Glass Lined Reflector.	
Sauchy	21082		0.
Saucines	21083		2.
Hiluciase	21084	The state of the s	2.
Saintologist	20862	Plugs and Receptacle	35



pted for Outdoor Uss.





ready for trimming.

Showing Mechanism.

Western Electric Long-Burning Enclosed Arc Lamp.

The first illustration shows the tamp arranged for outdoor use. The bell which encloses the rheostat is turned down. The position of the bell can be changed to that shown in the illustration of Tamp for indoor use. The stem of the lamp can be made any length to suit the height of the ceiling.

The third illustration shows the manner in which the globe is handled and the lamp trimmed. The globe is lowered and is held in position as shown by the construction of the lower portion of the carbon holder or side arm.

The lamp requires half-inch carbons, one 12 inches long and one 5 inches long.

The fourth illustration shows the mechanism in plain view, and in order to get at this mechanism all that is necessary is to slip the shell down. The switch is of a quick break pattern and can be reached and manipulated easily from the ground with a pole. The switch handle is just above the name plate as shown in the illustration. The lower carbon holder and enclosing globe are made removable, simplifying the triumning. The clutch nechanism requires the least amount of energy to operate it, roller bearings being used to lessen the friction.

There is no shadow cast by the globes. They are a true sphere in shape and closed at the bottom.

The lamps can be operated singly on 110 volts, two in series on 230 volts, or five in series on 550 volts. They distribute light uniformly, burn steadily, are noisoless, and the mechanism is simple and strong.

The standard lamps are of a dark or oxidized copper finish.

An ornamental brass lamp can be furnished and also other finishes upon special orders.

Prices on Arc Lamps quoted on Application.

The Rushmore Projectors and Search-Lights.

Type "A" Projector.

This is a high power Projector, possessing all the ab-vantages of the best lights formerly used in the Navisa giving an intensity estimated at one million candle power per ampere in the are, and is entirely free from the con-plicated mechanism which has made it necessary for every warship to carry a corps of "Search Light Expens" to keep them in working order. The apparatus cosmics essentially of a cylinder which is entirely empty except for the slender carbon holders which cast no radius and see them in working order. The apparatus cossess essentially of a cylinder which is entirely empty except for the slender carbon holders which cast no shadow, and the lamp is placed in a small case below the cylinder. In the rear cover is mounted the new lens mirror, and the arrangement, as will be seen by the following illustrations, is such that all the light from the carbons is thrown upon it. There is no light fost, and by reason of the central position of the carbons it is possible with the new lens to cause the light to be projected. In a narrow beam, spreading to but 100 feet at a mile distance, or to spread it out as wide as desired for making landings, etc., which is accomplished by simply turning a small band wheel shown on the lower lamp case. This device dispenses with the heavy and costly double diverging lenses placed in the front of the old navy lights, which are a constant expense and annoyance by breaking.

This type projector is designed particularly for the largest steamships, but is made in all sizes down to the smallest yacht light, as will be seen by price list.

Amperes	Plain Iron Japanned	Iron Frame Polished Brass Cylinder	Black Brass Frame Polished Cylinder	All Brass Polished All Over,	Height to Center of Cylinder Inches	Weight Cont. minor Line
5 to 10	\$375 00°	\$375 00 400 00	\$405,00 410 00	\$445.00 490.00	18	55 80
25 35	395 00 470 00	420 00 505 00	460 00 565 00	510 00 625.00	27 30	80 165
60 80	975 00	1095 00	590 00	150,00	58 58	165 365 366 450
	5 to 10 10 20 25 35 45 60	5 to 10 10 \$315 00 20 385 00 25 305 00 45 495 00 80 975 00 80 975 00	Amperes Plant Iron Polished Steas Cylinder 5 to 10	Amperes Pine Iron Polished Serse Frame Cylinder Villader S to 10 \$375 00 400 00 440 00 25 336 00 420 00 460 00 35 470 00 505 00 500 500 60 900 00 960 00 500 00 500 00 500 00 500 00 500 00	Amperes Plan Iron Expensive Pelished Political	Amperes Plain Iron Polished Brass Frame Polished Cylinder Polished Cylinder Polished Brass Frame Polished Brass Frame Polished Brass Frame Polished Cylinder Polished Brass Frame Polished Cylinder Polished



Type "A."



Pilot House Projector. Type "D."

This apparatus is the same as the Type "A." Projector just described, but mounted in a special U frame, adapting it for use on the roof of the pilot house. A controlling shaft strangement, as shown, extends below, by means of which the light is readily thrown in any direction by the man at the wheel. With this arrangement is may be controlled with even greater case than can the deek light, as the reaction is a full property in any full property. deck lights, as the operator is away from the glare of the intense beam, and the light being overhead can be di-rected with perfect accuracy.







The Rushmore Projectors and Search-Lights. (Continued.)

Pilot House Projector. Type "D."-(Continued.)

Illustration shows the projector with front and back doors opened, and it will be readily seen that anyone can place the carbons in the holders, and should they not be place the carbons in the holders, and should they not be of proper length for focus of the light, the lamp may be instantly shifted to bring it to focus, and thus it is not necessary to have the carbons of an exact length. This will be appreciated by those who have used the old style search lights which it was necessary to take to pieces to replace the carbons and which could never be trimmed in the dark as is often required where the apparatus has been neglected by day.

Other forms of this projector have means of controlling

Other forms of this projector have means of controlling the light when placed away from the pilot house.

Diam- cter. inches	Amperes	Plain Iron Japanned	Plain Iron Polished Brass Cylinder	All Brass Polished Cylinder	All Brass Polished All Over	Height to Center of Cylinder Inches	Weight Complete Line
10	5 to 10	Territoria.	9475 00	\$505.00	\$545 00	18	65
14	10	\$475 00	500.00	540 00	590.00	27	100
14	20	485.00	310 00	550 00	600.00	27	100
14	25	495 00	520 00	560.00	610.00	27	100
18	35	570 00	605 00	665.00	725.00	33	190
18.	45	595 00	630 00	690.00	750.00	33	190
26	60	1000.00	1060 00		*****	38	325
26	80	1075 00	1195 00			38	325
34	100	1600.00	1700 00		.neine	40	480

The Lens.

An important feature of the projectors is the new cor-rective Aplantic Lens which differs from all other lenses previously used, in that it has a corrective principle which previously used, in that it has a corrective principle which compensates for the area of the carbons. In the common mirror the actual focus is an infinite point, but as the large carbons have a crater of considerable area, such lenses cannot give a perfectly straight beam. By the new design this difficulty is largely overcome. The lenses are of wonderfully strong focus. They are made of a special grade of glass and the latest type muchinery is used for their finishing.

The Concentric Lamp.

The new Concentric Lamp has but a single spool mag-net and two gear wheels. It feeds with a power of over thirty pounds at all angles or vertically and its adjust-ment is permanent and simple.

Projectors in the Fog.

The light is concentrated to a single narrow beam The light is concentrated to a single narrow beam which causes very little reflection to annoy the pilot, but in real fog a light, no matter how powerful, if thrown horizontally, is worse than useless, as it can penetrate but a short distance, and by its reflection serves only to blind those on watch. It is well known that fog lies close to the water and, to take advantage of this fact, the projectors are constructed to throw a light in a vertical distance when recorded in the contract of direction when required. In this way the beam easily





The Columbian Street Lamp Post.

PATENTED.

For supporting arc lights for street illumination a demand has arisen for a post which, in addition to filling the well-known electrical and mechanical requirements, shall present a symmetrical and pleasing appearance to the eye. A glance at the accompanying illustration will show the auccess that has attended our efforts in this direction.

The lower part of this post, which is of cast-iron, has a broad circular base, which, when boited to the side-walk, gives the post great stability. Above the base the post assumes a hexagonal form and arises in graceful curved faces, paneled and ornamented in a tasteful mauner. One of the panels is hinged so that it may be opened to give access to the switch. The wooden portion of the post extends downward through the cast-iron base to the sidewalk, and above the base is provided with neat malleable iron steps, while at its upper extremity is carried a single side-arm lamp support equipped with switchboard and hood. The cover of the hood can be placed at any angle so that the street names will be parallel with the intersecting streets. The height over all is about 21 feet.

There are about 1,500 posts similar to this now in use on the Electric Light plant of the city of Chicago.

We manufacture these posts with ornamental supporting arm for the lamp in place of the ordinary street hood, for boulevards and parks.

In addition to the Columbian Lamp Posts we are prepared to furnish posts of special designs to suit the purchaser. We will submit drawings on application.

Code Word.	List No.		List Price.
Sandatid	21168	Post, complete, without lamp	\$110.00
Sandatifura	21169	Extra Switches,	4.50
Sandarae	21170	Extra Doors and Locks	4.50
Sandarach	21171	Extra Steps, without ring	- 740



Boulevard Lamp Post.

For boulevard street lighting we manufacture as' ornamental lamp post as shown in the accompanying cut.

This post is thoroughly made, electrically and mechanically, and is graceful in design. It is provided with a cast iron pedestal similar to that furnished with the Columbian lamp post. The cast iron top for supporting the lamp extends over the street in order to afford a good distribution of light, but at the same time the lamp is easily reached from the post for trimming. The worder portion of the post, which supports the steps, is made to extend through the cast iron pedestal to the ground giving a substantial construction. The post is also made with a top that curves out more than the one shown in the cut, making a post desirable for alley lighting. A switch is placed in the pedestal and is accessible by a hinged panel.

Prices on application.



Fixtures—(Continued).



Lounge 9120 Navy Signal Lantern, each..... 30.00





 Menhad
 9141
 Ceiling Pixture. each
 11.00

 Lactina
 8823
 Shade, each
 1.00

 Lactic
 8822
 Rubber Ganket, each
 .50

.... -...





No. 4974

Portable Lamp Guards—(Continued).



No. 8918.

Loud	8913	Brewer's Portable Lamp Guard, each	2.56



No. 9118.





No. 9119.

9119 Battle Lantern, with Shield, each......12.00

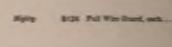


20



Spi 1972 Bull Workland, and





26a. 9120.

9122 Bonn-Ughi Globe, such



Fixtures—(Continued).



Lounge 9120 Navy Signal Lantern, each 30.00



No. 5163.



Meshed

Lactine

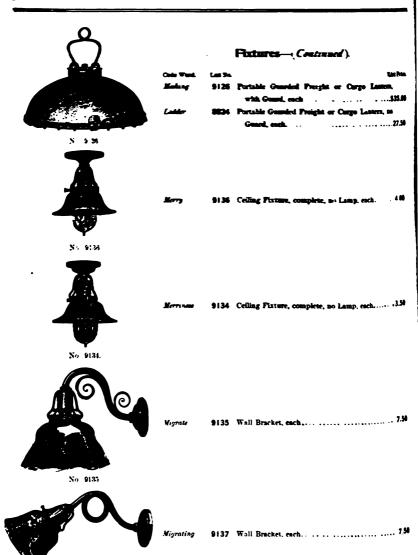
Lactic

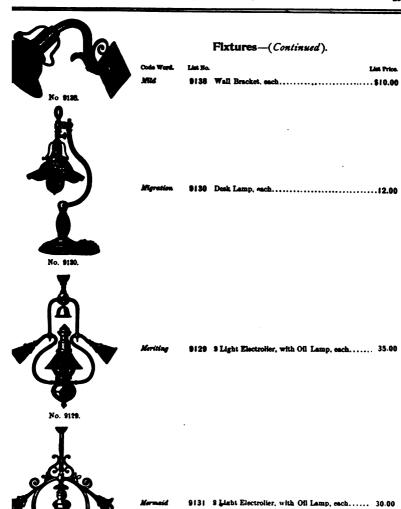
 9141 Ceiling Fixture. each
 11.00

 8823 Shade, each
 1.00

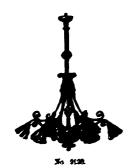
 8822 Rubber Gasket, each
 50

No 9137





No. 9181.







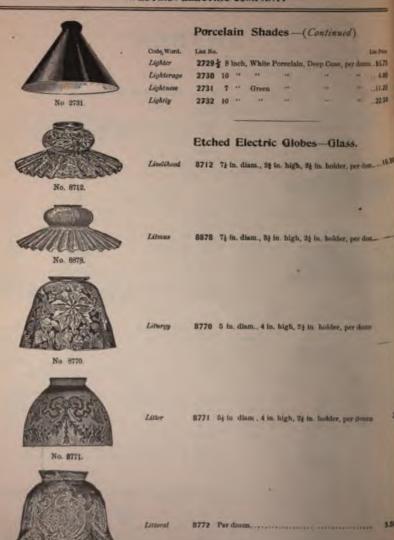


SHADES.

Porcelain Shades.

2000	Code Word.	List No.								L	t Price. er doz.
	Denling	2700	3	inch.	Fan S	haned	. Fiat		. 		2.25
	Donners	2701	6	4							2.50
io, 2700.	Debernh	2702	7	4			4		. 		2.75
	Delia	2703	8	4	-				. 		3.10
	Simony	23104	10		•						3.60
_	Simon	23105	12						• • • • • • • • • • • • • • • • • • •		7.80
		25140							•••••	•••	7.00
io. 2704.	.lbanloom	2704	5	ipch,	Plain,	Flat			• • · · · • · · · · ·		2.00
	Abereus	27,05	6	. "	٠.4	٠.					2.00
	.lberund	2706	7	•	4-				. 		2.25
	Abacunded.	2707	8	4		и.					2.50
	Absolutely	2708	10	4		٠.	 .		. 		2.75
	.lbeoluti	2725	12	4	4	"					5.50
	Abouler	2726	14	•	•	.4					6.25
	Abanterr	2727	16	4	44	"					8.75
	Absolcing	2728	18	4	4	44			15.00
	Simiona	23106	20	•	4	4	 .				17.00
in. 2709.	Simper	23107	22	4	**	•					26.00
	Simperer	23108	21	44		4					32.00
	Denis Depress Depression Deprice Depricing	2709 2710 2711 2712 2713	5 10 7 8	inch,	Deep,	Pan f	Shape		•••••		2.25 2.50 2.75 3.00 6.00
77	Dendacs	2714	3	inch,	Plain,	Deep			• ••••		2.00
11	Denf	2715	6	4	••	•			• • • • • • • • • • • • • • • • • • •		2.25
/ / / / / /	Dougen	2716	7	*	•	*		· · · · · ·	• • • • • • • • • • • • • • • • • • •		2.50
€ \$ 3 \	[has freeze	2717	8	4	-	••			. 		2.75
in zily	Deal		No edg				18, n	nade in	both plair beaded ed	and	
	Liguite	2719	Ме	lon,	Ojml, f	or 21 1	inch 1	lolder		••	3.00
2 / 1	Demonstrat	2720	5	hich	Scallo	ued					2.00
A Secretary	Abaurb	2721	6	····,	**	,		· · · · · · · ·		•	2.25
A STAN	Abourbent	2722	7								2.50
		2722	8						• • • • • • • • •		2.75
	.4badrbing	2123	9	-	-		· • • • · ·	.	• • • • • • • •	• •	2./3

20. STIR.





Etched Electric Globes-Glass-(Continued).



Attering 8825 Per Dozen



Lasteries 8765 5] in. diameter, 4 in. high, 2] in. holder, per doz. 6.50



Luster 8766 5 in. diameter, 4 in. high, 21 in. holder, per dox.. 7.50



Lusciousmes 8767 52 in. diameter, 4 in. high, 25 in. holder, per doz., 8.00



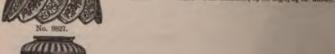
Etched Electric Globes-Glass-(Contr

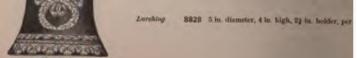
Lusciously 8768 5; in diameter, 4 in. high, 24 in holder, per

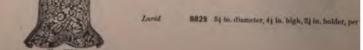
Luscious 8769 5 in. diameter, 4 in. high, 24 in. holder, per

Coruscate 8826 Per dozen.....

Lurch 8827 5 ln. diameter, 3j in. high, 3j in holder, pe









Etched Electric Globes-Glass-(Continued).

Code Word. List No. List No. List Price.

Lurking 8876 5½ in. diameter, 4 in. high, 2½ in. holder, per doz., \$2.25

Luring 8877 6 in diameter, 4 in. high, 24 in. holder, per doz., 5.00



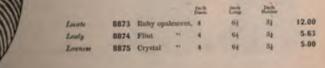
Colored Electric Globes-Glass.

		Diam.	Thigh.	Stolder,	Fer Dut.	
8857	Plak opalescent,	. 5 <u>f</u>	-48	21	7.50	
8858	Ruby "	54	:44	2,	7.50	
8859	Light blue "	44	44	35	3.75	
8860	Flint "	5	44	21	3.75	
8861	Amber "	54	46	24	3.75	



Lindiness
Linely
Livery
Livid Lividness

	Loan	8867	Funt op	ricaccar,	0	02.	-4	4,30
THE REAL PROPERTY.	Louthful	8868	Ruby	**	-13	31	24	8.75
William X	Louthness	8869	Plint	Tax.	8	31	21	3.75
Marie San	Loathsome	8870	Ruby	**	6.	31	21	7.50
	Locality	8871	Flint	29	7	31	22	4.90
No. 8861.	Locally	8872	Ruby	100	7	31	5‡	9.25
Committee								





No. 23109.



No. 23110.



New Patterns in Standard Shades.

W. A. Fluted Etched Shade.

Code Word. List No. Lin For Part in Total Storphe 23109 Shade 4 x 4 In. for 24 in Total in To

W. A. Electric.



No. 23111.



Simpler 23111 4 in. high, 50 in. wide, for 21 to 30



No. 23112.



No. 23113.

Simples 23112 4 in. high, 44 in. wide, for \$4 in-shade holder....

Simplician 23113 44 in. high, 44 in. wide, for 24 in. shade holder....



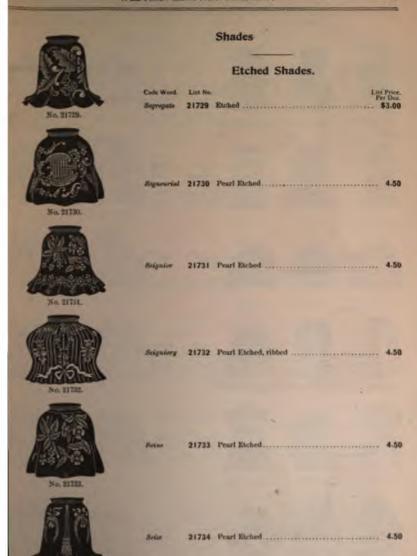


Simplify 23114 44 in high, 5 in wide, for 24 in shade holder....

Rough Etched Maple Lent.

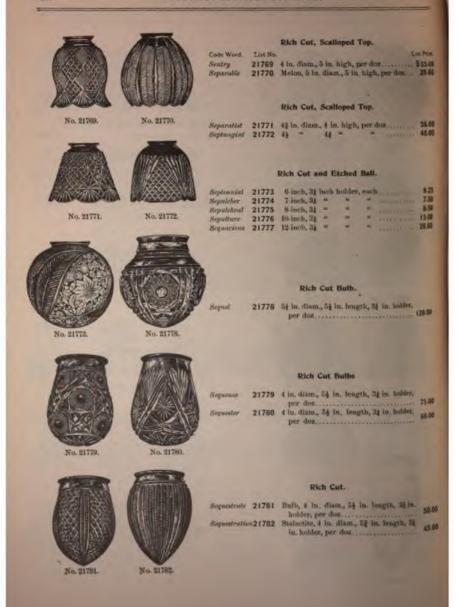
Simplest 23115 4g in. high, 54 in wide, for 24 in.

The black background on shades represents obear glass.



Shades-Roughed Inside. 21735 41 in. diam. 51 in. high, crimped top 21736 41 " 51 " "21737 32 " 52 " Select No. 21735. No. 21736. No. 21737 . Silver Etched. 21738 32 in. diam. 5½ in. bigh, scullo 21739 32 " 5½ " plain i 21740 4½ " 5½ " scullo 21741 4½ " 5½ " plain i 21742 3½ " 5½ " twist i 21743 32 " 5½ " twist i No. 21740. No. 21743. No. 21739. No. 21746. No. 21744. No. 21745. Crimped. No. 21747. No. 21748. No. 21749. Scantarial 21750 41 in: diam. 51 in, high, silver etched No. 21750. No. 21751. No. 217702 Rich Cut. 21754 H " NH " No. 21763. No. 21754. No. 21755. All Shades on this page for 24 in leader,

-	- COUNTY				-		
ALC: NO	APPENDEN			lver Etched,	Scalloped		1000
		Code Word	List No.		I In tiles	L	Per Doz.
No. 21704.	No. 21757.	Sense		-			\$17.00
		Name and Publishers		Etched and			90.00
-	-	Schooling	21/5/	of m. dram.	s in. nign		20.00
(IO)	30.00			Silver Etche	d Plain T	on	
MESSEL III	1 S 3 S	Kensible	21758				17.00
	ACT INCOME	Sensitive	21759				18.00
No. 21758.	No. 21759.						
-	1						
and Sean	FA						
Table 1	2000	2	ilver E	tched and Ri	ch Cut, Sc	alloped Top.	
		Sensorial Sensorium	21760				
No. 21700.	No. 21761.	Denauraum	21701				21.00
and allow	1100.21101.						
	ATTICAL TO						
E BELLEVA	(2)			Cut an	d Etched.		
原源源题		Sensory		Scalloped To		n. 4 in. high	24.00 14.50
A SECTION A		Sententions	21763	Plain Top,	24 "		12.50
No. 21762.	No. 21763.		No. 21	764 is the same	e in finish a	No. 21763.	
390, 21 (62.	20. 21700.						
ATTA	ATTEN .						
FARMA	A66-50-50			Cut an	d Etched,		
	ATTENTO	Sentient.				diam. 4 in. high,	
E SEE		Sentiment	21766			Top, 5 in. diam.,	
No. 21703	No. 21706						
	-						
	(10000000)						
The state of the s	100000			Rich Cut, S	icalloped T	op.	
23.00	ZWYW.						
10000 B	Access	Bantinel	21768	4 "	14 "		30.00
No. 21767.	.No. 21768.						



Shades Twist Stalactites. Code Word. List No. Plain Stalactite, Roughed Inside. Sertile 21821 7 in. diam., 10 in. length, 4 in. holder, 24.00 Rich Cut Bulb. Section 21822 Large, 4½ in, diam, 5 in, length, 3½ in, holder 50.00 Shubby 21823 Small, 4 in, diam, 5½ in, length, 3½ in, holder 45.00 Shiekle 21824 4 in, diam, 5½ in, length, 3½ in, holder, 52.00 52.00 No. 21824. Rich Cut Stalactite. 21825 4 in diam., 8 in length, 31 in holder, 60.00 21826 4 " 8 " 31 " 75.00 No. 22425 No. 21826. Rich Cut Stalactite. Shay Shoppy No. 21828.



No. 21829.

Silver Etched Bowl.

Code Word. Shuk	List No. 21829	124 inch, each	 		 								ر ميز 112
Shake		14-inch, "											
Skale	21831	15-inch, "	٠.									٠.	1
Skallop	21832	16 inch, "					 			 		 	2
Shallor	21833	18 iuch, "			٠.		 						4



Rich Cut Bowl, "Jewel."

therm	21834	10 inch, e	ach									 		 18.00
hamble	21835	12) inch,	"	٠.										 30.00
Shirme	21836	14-inch,	"				٠.					 		 45.00
Shammy	21837	16-inch,	44										٠.	 75.00

Aluminum Lined Reflectors.





No. 23081.

These Reflectors are made of tin, japanned a dark green on the outside, and lined with a sheet of polished aluminum. The tin forms a strong, stiff support for the thin aluminum, the two being wired or scamed together

thin aluminum, the two being wired or seamed together at the top and bottom edges.

The aluminum is very highly polished, and being almost chemically pure, it will not tarnish by exposure to the atmosphere and moisture. It therefore forms an ideally perfect reflecting surface of the highest efficiency and durability.

The Reflectors are futed by an improved method, the curvature of the flutings in each style being carefully calculated so as to produce a uniform intensity of light over the area to be lighted, without wasting any portion of it by double reflection, or by throwing it where it will be of no use. will be of no use.

These Reflectors are unbreakable, and they are much lighter in weight than glass.

Silca 23079 No. 101 10-inch, to fit 2½ holder, each......
23081 No. 201 10 inch, " 2½ " " Bilcanite





No. 21820.

Silver Etched Bowl.

Code Word.	List No. 21829	12) heh, e	ach		510.00
Shake	21830	14-inchy	AL.		17.50
Shale	21831	15-iuch,	4		17.55
Shutting	21832	16-inch.	AL.	WARREST TO THE PARTY OF THE PAR	25.00
Shulling	21833	18 inch,			45.08



Rich Cut Bowl, "Jewel."

Sham Shamble		10-inch, each	38.00
Shome	21836	14-inch, "	
Shammy	21837	16-inch, "	75.00

No. 23079.



No. 2308L

Aluminum Lined Reflectors.

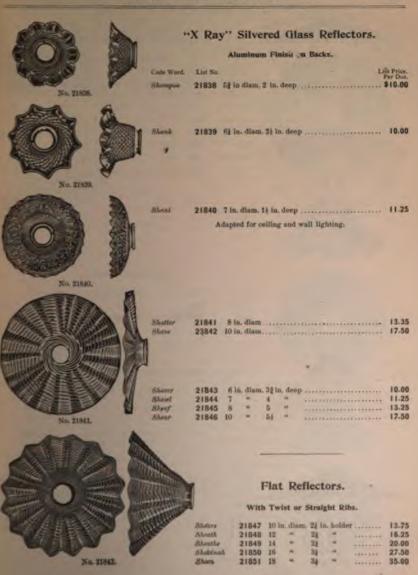
These Reflectors are made of tin, Japanned a dark green on the outside, and lined with a sheet of pollshed aluminum. The tin forms a strong, stiff support for the thin aluminum, the two being wired or seamed together at the top and bottom edges.

The aluminum is very highly pollshed, and being almost chemically pure, it will not tarnish by exposure to the atmosphere and moisture. It therefore forms an ideally perfect reflecting surface of the highest efficiency and durability.

The Reflectors are fluted by an improved method, the curvature of the flutings in each style being carrfully calculated as as to produce a uniform intensity of light over the area to be lighted, without wasting any poetins of it by double reflection, or by throwing it where it will be of no use.

will be of no one, There Reflectors are unbreakable, and they are much lighter in weight than glass.

Silve Bilennile





Silvered Glass Reflectors.

				P Tobat me		111111111	accu.		
Code Word.	List No.								Ein Prin
Logical	2355	8	luch	diameter,	21	Inch	bolder.	per down	38.00
Logically	2356	10	. 17	- 22	22		**	- 11	9.00
Logician	2357	12	10	99	24	100	- 00	-0	13.75
Logwood	2358	14		- 11	21	.00		*	17.50
Loin	2359	16	-		21		1	15	20.00
Loiter	2360	18	-	- 10	21	-	-	1	26.25
Loneliness	2361	20	. 41	- 11	2	18	14		57.50
Family	0000	200	- 44	24	100	44	41	-0	47.00



Lonesome	2363	7	inch	dlameter,	21	inch	holder.	pet	doses	9.00
Louning	2364									
Loom	2365	10		- 11	21	18	**		0	 12.00



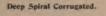


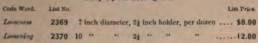
Radial Fluted.

Loose	2366	7	loch	diameter,	24	inch	holder,	per dozen	B.80
Locarly	2367	8	-		21	- 46	-	2	10.00
Loinen	2368	10	-		24	-16	-14-	-11	12.08



Silvered Glass Reflectors-(Continued).









PAA INIJAA PAA INIJAR PANILISTITOS

No. 2007.

McCreary Standard Reflector Shade.

Lintel	2733	7 inch Shade; size of opening at top, 24 inches
		requires a 34 inch holder; will take a 16, 20 or
		24 candle-power lamp, per dozen
Liones	2734	8 inch shade; size of opening at top, 25 inches;
		requires a 3; inch holder; will take a 16, 20 or
		24 candle-power lump, per dozen 21.00
Linnia	2735	9 lach Shade; size of opening at top, 32 laches;
		requirer a 4 inch holder; will take = 32 candle-
		power lamp, per dozen33.00
Liquidate	2736	12 inch Shade; size of opening at top, 34 inches;
		requires a 4 inch holder; will take a 50 candle-
		power lamp, per dozen
	In orde	ering, state kind of lamp to be used and candle-
	power.	
Liquidated	2779	Shade Holder for Standard Shade, Edison Socket,
-		per dozen
Liquidating	27798	Shade Holder for Standard Shade, Westinghouse
		Socket, per dozen 3.00
Liquor	2780	Mice Dust Protector for 7 and 8 inch Standard
		Shades, per dozen
Listen	2781	Mica Dust Protector for 9 and 12 inch Standard
		Shades, per dozen 1.50
Lightening	3997	Opaque Green, with Ground Glass Bottom, 34x8
		Inches per dozen 21.00



McCreary Half Reflector Shade.

For 16 Condis-Power Laws.

ide Word.	List No.				Lat Print
ingo	2737	Opal, per	doze	9.	##
ingwal		80 vered	••		846
inguist	2739	Colored	••		780
iniment	2740	Aluminum			
			Inci	hiding Metal Tops.	
		_	<u> </u>		

For 32 Candle-Power Lamps.

Linnel Linesed Including Metal Tops.

"Cartwright" Paper Waterproof Lamp

For Any Socket.

Shade.

These are made with the white and green surface, at can be washed in either cold or lukewarm water wished destroying the texture of the fibre, the fibre being the

uestrying the sexture of the fibre, the fibre being the ought impregnated with a waterproof material. Any for if y apecks that can be removed from any surface cas be removed from this Lamp Shade without injury to the surface or fibre of same. 2777 "Cartwright" Paper Shades, per dozen.... 4.80



Utility Shades.

Made of Celluloid or Cardboard.

8731 10 inch, Cardboard, per dozen...... 2,98 Hastiness Hasty 8732 Hatchway 8734 Halefully No. 8789

Lingering

Metal Shades and Reflectors—(Continued).



Cude Word. Abstain	List No.	List Price.
Abstain		
	2760	6 inch, Japanned Green Outside, Enameled White Inside, per dozen
Absterge	2761	7 inch, Japanued Green Outside, Enameled White Inside, per dozen 1.75
Alstract	2762	
Absurd	2763	10 inch, Japanned Green Outside, Enameled White Inside, per dozen
Aboundity	2764	12 Inch, Japanned Green Outside, Enameled White Inside, per dozen
Hirmlenly	2765	14 inch, Japanned Green Outside, Enameled White Inside, per dozen
Harmieuneu	2766	16 inch, Japanned Green Outside, Enameled White Inside, per dozen
Harmonic	2767	18 inch, Japanned Green Outside, Enameled White Inside, per dozen 6.00
	lokler. Any of	for 2½ face and 3½ inch Holders, and Edison Other sizes to order, If the above Shades fitted with \$ x \$ inch pipe con- for bracket work at 10 cents each, net, extra.

Half Deep Tin Shades.

SIMILAR TO No. 2760, BUT A LITTLE DEFPER.





Cone Tin Shades.

order.



Miscellaneous Metal Shades—(Continued).

Metal Half Shades-With Wire Guard.,
de Word. Lies No. Lie



2801 " " with Wire Guard, per dozen ... \$80

See cut of Shade No. 2743, which shows manner in which it is used.

Only one set-screw used. Saves time in adjusting socket.

Metal Shades and Reflectors.

"Marten" Combination Shade and Holder.

(Parened.)





200. 2140.

Abyus	2743	6	inch,	Flat,	Green and	White	Enamel,	per dos.	2.35
Accede	2744	7		•	"	••	••	••	2.35
.1oreded	2745	8		••		••		••	2.35
Criminal	2746	10	,			••			2.85
Criminate	2747	13					••		3.60
Criminating	2748	14							4.35
Cuthbert	2749	16				••			5.60
Cynthia	2750	18							6.60
Acceling	2751	8	io . Il	alf De	ep, Green a	nd Whi	te Ename	l, perdo	2.35
Accelerate	2752		,						2.85
Accession	2753	12							3.60
Cricketer	2754	14	••					••	4.35
Crice	2755	16							5.60
Crime	2756	18				.,			6.60
Acedental	2757			ull Co	ne, Green as	al Whi	e Kname	l. nerdol	2.85
Acclaim	2758	10					"	,	3.60
Acclamation	2759	12							4.60

Only one set-screw used instead of (4) four, as in ordinary Holders heretofore sold.

Abourdly

Abusing Abusira Castellated

Custle

List No.

List Price.

1.75

Metal Shades and Reflectors—(Continued). Flat Tin Shades.



Ahelain	2760	6 inch, Japanned Green Outside, Enameled White Inside, per dozen. \$1.75
Absterge	2761	7 Inch, Japanned Green Outside, Enameled White Inside, per dozen. 1.78
Abstract	2762	8 Inch. Japanned Green Outside, Enameled White Inside, per dozen
Abourd	2763	10 inch, Japanned Green Outside, Enameled White Inside, per dozen,
Abourdity	2764	13 inch, Japanned Green Outside, Enameled White Inside, per dozen 3.00
Hermicoly	2765	14 inch, Japanned Green Outside, Enameled White Inside, per dozen
Harmieuneu	2766	16 inch. Japanned Green Outside, Enameled White Inside, per dozen
Hermonio	2767	18 inch, Japanned Green Outskie, Enameled White Inside, per dozen 6.00
		for 21 inch and 31 inch Holders, and Edison
	Any of	Other sizes to order. The above Shades fitted with § x § inch pipe confor bracket work at 10 cents each, net, extra.

Half Deep Tin Shades.

SIMILAR TO No. 2780, BUT A LITTLE DEEPER.



Abundance 2.25 5.00 Fitted for 21 fach and 31 inch Holders, and Edison Holder. Other sizes to order.
We can also furnish any of the above Japanned White Enamel both sides.



Abut Abutment 3.00 Abutting Fitted for 21 Inch and 31 inch Holders. Other sizes to

Cone Tin Shades.



Silver-Plated Mirror Reflectors.

Deep Conc.

To concentrate a powerful light on a small space. Lined with allver-plated mirror-plate glass. Increases the light from twelve to fifteen times. Most valuable is show windows and over machines, work benches, type cases, etc., etc.

Price Last List No.



Flat Come.

For use where it is desired to spread the light. Its allver-plated mirror-plate lining makes it most effective and pleasing, and always as good as new.

Convex.

21869 No. 135 18-inch,



Reflecting slightly below the horizontal in all directions.

Used in stores, etc., for general illumination. 21870 No. 141 10-inch, to fit 21 holder 21871 No. 142 12-inch, " " 1.59
21872 No. 143 14-inch, " " 1.59
21873 No. 144 16 inch, " " " 1.55
21874 No. 145 18 inch, " " " 2.16 1.25

For Incandescent Clusters.

Style No. 158.



Shingle 21875 No. 151 20-in. Reflector only, fits # iron

... 7.60 pipe Shire Shirk 21880 No. 156 24-in. 2171 No. 157 30-in. 216-2 No. 158 35-in. 6 4 Shirred Shirting

Frink's Patent Reflectors,

For Electric Lights in Churches, Halls, Banks, Stores, Store Win-dows, Schools, Hospitals, Office Buildings, Factories, Etc.

Frink's Deep Reflecting Shade.

Enameled dark green outside, lined with Silvered Corrugsted mirror opal glass. To throw the light down-ward. Adapted for stores, store windows, desks and places where a number of lamps acattered over the ceiling or in clusters; the shade reflects the light down where needed, and greatly increases the light at a minimum of expense.



Frink's Flat Reflecting Shade.

For stores, factories, workshops, ceiling lights and general use.

Accumbent	25504	2399	10., Mirror 21 inch	1.00
Accumulation	25505	2398	10 Corrugated 21 "	
Accumulative	25506	2459	12Mirror24 "	1.30
Acrumelititely	25507	2460	12 Corrugated21 "	1.60
Accimulator	25508	2463	14 Mirror 21 "	1.60
Accurately	25509	2464	14 Corrugated 21 "	1.80
Accursed	25510	2455	14Mirror31 "	1.60
Accumble	25511	2466	14Corrugated31 "	1.80
Acrusul	25512	2467	ŭ ·	2.25
Accusative	25513	2468		2.60
Accusatively	25514	2469		2.25
Accusatorial	25515	2470	•	2.60
Accumitory	25516	2473	18Mirror31 "	
Accuse	25517	2474		3.15
Acentric	25518	2497	20) Mirror 31 "	
Arephal	25519	2498	204 Corrugated 34 "	

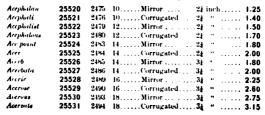
Lined with opal glass, when ordered, at same price as

for mirror.

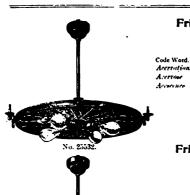
Ten inch flat and deep shades furnished for Edison sockets without holders when ordered

Frink's Convex Reflecting Shade.









Frink's Combination Cluster Reflector.

Length, 30 inches, wired, without sockets or lamps.

| Diam. | Entire | List No. | F. No. effector | Spread | Glass | List No. | Extra | List No. | Extra | List
The above are with four gas burners and wired for four sockets, if ordered for more or less sockets, add or defeat fifteen cents, each,

Frink's Sectional Glass Electric Cluster Reflectors.

With 3 to 8 lights, lined with Frink's silver plated or rugated glass. Should be generally used for lighting stores, banks, waiting-rooms, deputs, hospitals, schools, offices, factories, etc.

To obtain best results from cluster lights, use 201 lach

reflectors. Reflector with cluster and stem 18 inches long, wired, but without sockets, 25535 2500 18.....8livered Corrugated\$675 25536 2501 201..... 4 47.58

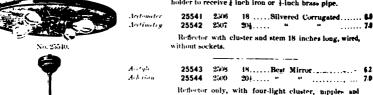
Reflector only, with four-lighted cluster, nipples and holder to receive ginch iron or ginch brass pipe.



20).... Reflector with cluster and stem 18 inches long, wired, without sockets.

18.....Silvered Corrugated \$0

25539 2504 25540 2505 201..... Reflector only, with four light cluster, nipples and holder to receive a inch iron or a inch brass pipe. 25541 2508 18Silvered Corrugated \$3 25542 2507 204 " " 7.8



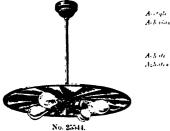
Acres Acentables

Acctable

A. dated

Antitu

Aretal



25545 2510 18. Best Mirror. 42 25546 2511 204 " 5.0 Wired for four sockets; If ordered for more or less sockets, add or deduct fifteen cents each, list. These reflectors have solid metal frames, and are lined with silver plated corrugated, mirror or opal glass in sections, rigidly held in place.

holder to receive I inch iron or I inch brass pipe.

Reflector with cluster and stem 18 inches long, wired, without sockets.

Frink's Sectional Glass Electric Cluster Reflectors. -Continued. List No. F No. 25547 2512 25548 2513 204 : 11- " Reflector only, with four-light cluster, nipples and holder to receive 4-inch iron or 4-inch brass pipe. Reflecter with cluster and stem 18 inches long, wired, without sockets. 25551 2516 22552 2517 Reflector only, with four-light cluster, nipples and holder to receive 4-inch iron or 4-inch brass pape. Reflector with cluster and stem 18 inches long, wired, without sockets. Acidifiable Reflector only, with four-light cluster, nipples and holder to receive ‡-inch iron or ‡-inch brass pipe. 25557 2522 18..... Opal 5.50 25558 2523 20†...... 6.50 Acidifler Wired for four sockets; if ordered for more or less sockets, add or deduct 15 cents each, list. Frink's Suspended Reflecting Chandelier. Double come silver-plated corrugated glass, brass frame reflecting chandelier for electric light, for lighting churches, halfs, theatres and public buildings. Trimmed with one row cut glass priams, finished with brass crown bands and having outside lights. | Diam | Number | Price | Pric Code Word. Acidulate Acidulated Aridulous Actform Acinaceous Acinaciform 25569 72.....45......250.00..... 200.00 25570 84......60......325.00.....265.00 Aciniform These reflectors will be made up in opal, instead of silver-plated corrugated glass, if preferred, at same price. Price includes wiring, but no sockets or famps.







Code Word. Acidmeter

Acidimetry

No. 23560.
With loops to attach to ceiling with chain.



No. 25561. With brackets to attach to the transom bar.

Store Window Lighting.

Ninety-nine per cent, of store windows are imperfectly lighted, and especially so where electric lamps are used. Most of the lamps are exattered on the hottom and at the sides of the windows where they can be seen and where they attract more attention to the modern than to the goods they are imperfectly lighting. The ideal window light should light the goods and not be seen while doing so.

Frink's Special Patent Window Reflector,

for Electric Light, lined with aliver plated Corne for Electric Light, liced with silver-plated Corrugated Glass, is placed in top of window near the front glass, reflecting the light inward and downward. This makes a very desirable window reflector, as the reflectors are out of the way and concealed from view, at he sust time concealing the direct light from the eyes of the observer, and giving a strong, even light where werend, thus doing away with the annoyance of a dazziling fight in the eyes. It is used also largely for lighting at galleries, pictures, stock exchange boards, border light telephone switch boards, stc.

To get best results, reflectors should be used crists width of window with lamps 9 or 12 loches apan, to desired.

desired.

These fixtures are wired but do not include sockets

and lamps—three are extra.

Suspended from celling with one or more same arequired.

List No. 25559	2415 Lined with silver-plated Corrugated	
25560	Glass	
25561	2415B Lined with silver plated Corrugated	06

To get the best results, reflectors should be used the entire width of windows, with lamps W or 12 inches span as desired. When ordering please state if style Na 25559, No. 25590 or No 25591 is desired.

Frink's Special Patent Single Lamp Window Reflector.



Acidness

25562 2409 Limed with silver plated correspond glass, ready for sockets and tamps . \$3.50



Silver-Plated Mirror Reflectors.

For Incandescent Cluster.

Ryle No. 105.



25 - 122.554

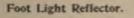
Code Word	Links					
Griser'.	21883	Sa 10	216.	reterme	indy.	0
Simi	21884	36.12	24/4	0.00	80	0
Mostr	21885	No.10	20-16.		-	-
Seed.	21886	No. 244	Sin		-	
Stirel	21887	No 25	Sile.		.21	B
Saidly	21888	No. 105	Zila.		4	а
Mose	21889	No. 857	25 la.		6	н
State .	21650	No. 168	Min.		8	в

Green Ostable. Givery Enumed White Inside.

21881 No.219 Tim Gam., height 64 ins., per dor 4.00



No. 21802.



Green Outside. Bright Tin Inside.

Shee.



No. 21883.

Pulpit Hood.

Brante outside. White Enamel Isside.

c/ 2185



No. 21894.

Billiard Reflector,

Green outside. . White Enamel inside.

Shout 21894 For 24 inch holder, per doz................ 6.00



The Crescent Shade.

This Shade has been designed to meet all the requirements of the meets of Tin Shades. It is made of heavy tin, and the corrugation and shape are so arranged as is give the greatest reflecting power.

Aluminum Half-Shape Shade.



The shape of this half shade is much as to reflect the greatest possible light. The new patented holder also shown on the above cut, in which only see set acrew is used, can be furnished when desired.

when desired.

We have a new process of treating aluminum which gives it a silver finish, making it very much more beautiful in effect and softening the reflector. This new treatment of aluminum in electric shade, to the best of our knowledge and belief, has been discovered by us, and from all that we can learn, has never been used hereto

can learn, has never been used heretofore on any electrical shades. The shades can be fornished green outside, polished inside or polished both sides, or with the new process of treating aliminus, called silvereen duish.





Parabolic Reflector.

Aluminum.

Green outside, polished inside. Fits lamp without thade holder.

Sheltur	21858	For 16 c. p. lamp	7.5
Shekee	21859	For 32 c. p. lamp	11-30



Deep Cone Form. No. 21980.

Cutter Combination Shades.

Deep Come Form.

Save the cost of a shadeholder. Grip the we ket squarely and firmly. Throw the light where it is wanted. 25,000 now in use.

Green on top, white or bright inside. Fit the standard socket shells

For use in offices, factories and slogs.

21868 Per dut

53 80



Shool

Flat Ferm.

Has an improved clamp which grops any neaded scheel, so that no shadeholder is required. Is unuckly put on or taken off, and has no fragers to head our of shape or break off.

Always hangs level and firm, and is the most tree. ble reflector made for halls, shops or stores.

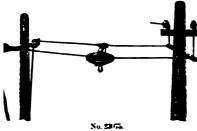
Green on top, bright tin or white enamened makes

Sight

21861 Per duz ...

A . 5"

1.89





Streethood Nozzle.

"Always Level" Spreader Tip.

Cutter "Always Level" Suspension Streethood.

It is the only suspense of present extitutive force level in windy weather. The two wires was og to the head make up one ede of the respection while confer passing over excess particles from the other side within the new in complete them to other side within the new in complete them to other side within the new in complete. per untre

Bott the wares and the clear of anomalic from the cross activity means of the operation operators type. The pulseve are mounted on a westign, some type in particles we cannot be a secondary some the wrings and a secondary free transfer on the same a fine other pairs. These particles were seen to of some other some times that they can be controlled except of the some times. The some interpretation proposes in the secondary secondary secondary secondary secondary secondary in the secondary secondary secondary in the secondary secondary secondary in the secondary secondary secondary secondary secondary secondary.

23976 Compacts with mile processes

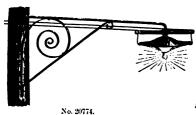


Cutter Petite Pulley and Hood.

'Is a smaller form of the lamp supporting puller, adapted for use with streethoods. This style of supposion is still a favorite with many stations, and the cross arm for this purpose has a special knob builed security to it.

Code Word.

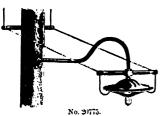
Sadiron Sadly

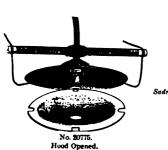


Cutter Boulevard Streethood.

Is an ornamental form designed for use on the re-idence streets. The cut shows this as made with a five-foot bracket arm; other lengths and special de-signs will be furnished on short notice.

Sodness 20774 Complete with socket 38





Cutter Standard Streethood.

Is the outcome of an eight years' experience in designing and building incandescent street fixtures. The hod proper is seamless and bell shaped for neatness and strength. The reflector has a white enamel paint baked on it so as to resist the weather, and is so curved as to scatter the light evenly over a wide area. The receptacle socket furnished with the hoad for use on multiple cir-

cuits can be more quickly wired than any other socket.

The Iron supporting bracket or "guoseneck" is extra
heavy, and fits a special pole-plate which is bolted to the
pole

20775 Complete with brace arm and sacket 24



Metal Hoods.

The New Suburban Hood.

This fixture excels in simplicity of construction. The fron canopy is made with alots to take wires, and linemen can easily and quickly adjust the hoods by this method, thus saving vexatious delays. Any size Hoods made to order at small advance.

Lieped

List No. 2799 Each\$3.80

'List Price

Price includes Bracket,



The Tidnam Hood.

JAPANNED GREEN ON TOP, WHITE ENAMEL REPLECTOR.

Adapted for Weather-proof Globe. In ordering, state size of socket-| inch or | inch.





ALL PARTS INTERCHANGEABLE.

2785 16 Inch, each...... 2.00 Bocket protected by the Reflector, the Lamp only being exposed.

The Chapin Hood.



Socket protected by the Reflector, the Lamp only being exposed.



The Columbian Hood

Socket protected by the Reflector, the Lamp only being exposed,

2787 18 Inch, each 1.50



Weather-proof Globes.

Weather-proof, for 16 Candle-power Lamp.

Code Word. List No. Lillian 2060 Crystal, with Cap, each\$1.00 Lily 2061 " L25 Limber 2062 Blue, with Cap. Limberness 2063 " Globe only, Limekila 2064 Green, with Cap,

Limentone 2065 " Globe only, " IS Limit 2066 Ruby, with Cap, " Globe only Limitable 2067 Limitation

Weather-proof, for 32 Candle-power Lamp.

SAME PATTERN AS No. 2000.

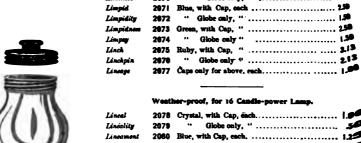
" Globe only."

" Globe only,"

Globeouly," 1.38

2086 Cap only for above. each.....

Globe only, "



2081

2083

2085

2670

2071

Limited Limiticas

Limpid

Linear

Lincation Linen

Loftiness

Lufty

Logio

Locating



No. 2078.



No. 2087.

1

Vapor-proof, for 16 Candle-power Lamp.

Locibet	2088	" Globe only,	**	.81
ockmith	2089	Blue, with Cap, each		2.8
Lodge	2090	" Globe only, "		1.81
Ledged	2091	Green, with Cap, "		2.80
Lodging	2092	" Globe only,"	***************************************	1.80
		D 1		

2094

7. Sept.	Time Watte In anonau In afen	Wire Guards. Lac No.
No. 2964.	inally	2806 Trained per owner
No. 9907.	Arrianctory Actionty	2887 F. Sasked Brass per d. rer 2 00 2888 Timted per dozen . 56
	Accompany	2809 Galvar and Iron, each
Fo. 2008	્રેક	Laper 2058 Guard No 2866 6 mp to with Hands Hold of Hold of Hold (45). Traine 8729-Handle, with Hold, each 1, 1, 20
Daples.		The "Perfection" Guard. The Perfect on Court is made of beight filled wise, silver filled. It is easied alonged to be act. When attached it is filled a court of will produce the lamp from breakage when so could be the reachest tracke. It is made as two six on, he pulls and so which appears a shown as illectual in for removing the lamp without removing the guest. If correspond 25490. Perfection Plain Lamp Guard per doc. 1.23 drawns. 25572. https://doi.org/10.1001/j.15001.

Station, Testing and Measuring Instruments

CHIEDER LENDON. ANTWERH

No. 2281.



No. 3375.

Voltmeter.

A voltmeter specially designed for use on dynamo switchboards. It has no springs nor permanent magnets, is practically dead beat and reliable within one per cent.

The instrument is protected by a substantial bronze case fastened to its base by sealed screws so that it cannot be removed without showing the fact.

Code Word.	List No. 2281	120	Volta,	ench									150.	
Mead	2282	150		144		ü		i			i		55	00
Meadow	2283	200	44	186		į,			ě			į,	60	Ø
Meager	2284	220		-		ü			ú	ı	i		65	00
Meagerness	2285	250	- 44	**	44		3		5				65	.00
Meal	2286	400	.81	95		ú.			e.	ě	ı		70	00
Mealiness	2287	500	44	44		v.					ı		75	.05
Mean	2288	600	4.	116						ě	×	ij	75	.0

Ammeter.

Our improved Magnetic Vane Americe bas no springs or permanent magnets, is a purely gravity instrument, nearly dead beat, and yet semitive to small changes of current. Made in sizes varying in range up to a maximum of, 600 amperes.

A heavy bronze case with scaled fastenings is used, so that the instrument cannot be tampered with without showing it.

placed directly in a circuit, no shunts or other devices being used in connection with it.

Meander	2289	5	Amperes,	each	16.5
Meaning	2290	10	10	** ***	18.0
Meaningly	2291	20	16		18.6
Meanly	2292	30	94	to water	10.4
Meanness	2293	50	91		20.0
Measles	2294	90	146	** *******	20.0
Lampoon	3373	120	100	***	20.0
Lampooned	3374	150	46		21.1
Lance	3375	200	44		21.0
Lanced	3376	300	75		200
Lancet	3377	-400	-	or server	22.0
Land	3378	500	10		24.6
Landau	3379	600	160	in accounts	20.0
Landed	3380	750	. 0-		200
Landholder	3381	1000	10.	**	
Landlady	3382	1500	0		48.0
Landlock	3383	2000	**	*	EE !

Weston Standard Portable Direct Reading Voltmeters.

The following is a list of the Standard Voltmeters kept in stock. Calibrating coils and contact keys are attached to instruments only when so stated. The scales for these instruments are of uniform length, and are divided into 120 or 150 parts, the value of each division being the pro, portional part of the maximum scale value.

Instruments provided with contact key can be kept permanently in circuit by depressing the key and giving it a quarter turn. All instruments are provided with rubbercovered binding posts.

Detrayal

List No.

List Pric 2609 No. 1. Scale 0 to 150 volts by single volt divisions, readable to tenths, each.....\$55.00

Betrawed

2610 No. 2. Scale 0 to 150 volts by single volt divisions, readable to tenths; contact key and calibrating coil each......60.00

Betraying

2611 No. 8. Scale 0 to 150 volts and 0 to 5 volts; scale of double values with a ratio of 30. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values 18 of a volt, readable to 18; contact

Betav

1179 No. 3j. Scale 0 to 150 volts and 0 to 8 volts; scale of double values with a ratio of 50. Each division on upper scale values is one volt, readable to tenths; each division on lower

2612 No. 4. Scale 0 to 150 volts and 0 to 15 volts; scale of double values with ratio of 10. Each division on upper scale values is one volt, readable to tenths; each division on lower scale values is $\frac{1}{10}$ of a volt, readable to $\frac{1}{100}$; contact

scale values $\mathfrak{s}^{\mathfrak{l}}_{\mathfrak{g}}$ of a volt, readable to $\mathfrak{s}^{\mathfrak{l}}_{\mathfrak{g}}\mathfrak{s}_{\mathfrak{s}}$ con-

Betroth

Retrothal

2613 No. 5. Scale 0 to 300 volts by 2 volt divisions



Betrothing

readable to ! volt; circuit key and calibrating 1178 No. 6. , Scale 0 to 450 volts by 3 volt divisions,

Admiralty

readable to 1 volt; contact key and calibrating 3045 No. 7. Scale 0 to 600 volts by 5 volt divisions,

3046 No. 8. Scale 0 to 600 volts by 5 volt divisions, readable to \ volt; contact key and calibrating

Admiration

List No.

Onde Word.

Weston Standard Portable Direct Reading

List Prins

Voltmeters-(Continued).

Bespeaking 1189 No. 9. Scale 0 to 600 volts and 0 to 150 volts; scale of double values with ratio of 4, reading

by 4 volt divisions, readable to ‡ volt on upper scale values, and by single volt divisions

readable to 👍 on lower scale values; contact key, each......\$90.00 1193 No. 9j. Scale 0 to 780 volts and 0 to 180 volts;

scale of double values with ratio of 5, reading by 5 volt divisions, readable to ‡ volt on upper scale values, and by single volt divisions read-

able to 14 volt on lower scale values; contact key, each..... 1194 No. 10. Scale 0 to 600 volts and 0 to 300 volts; scale of double values with ratio of 2. shading

by 4 volt divisions, readable to ; volt on upper scale values, and by 8 volt divisions, readable to I volt on lower scale values; contact key,

1196 No. 12. Scale 0 to 1,500 volts by 19 volt divisions, readable to single volts, each........86.66

> Voltmeters of other ranges, with one or more scale values, will be made on special order.

\$195 No. 11. Scale 0 to 750 volts by 5 volt divisions.

High Range Voltmeters

In which part of the resistance is contained in a separe box specially designed to obtain high insulation. No callbrating coll or contact key. 1197 No. 18. Range 0 to 2,250 volts and 0 to 150 volts. Restowing

No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the

value of the scale divisions by 15, each 100.00 1198 No. 14. Range 0 to 8,000 volts and 0 to 150 volts. Restricte No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the

value of the scale divisions by 20, each...... 190.80 1199 No. 15. Range 0 to 8,750 volts and 0 to 150 volts. Bestriding No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the

value of the scale divisions by 25, each 1 15.00 1183 No. 16. Range 0 to 4,500 volts and 0 to 150 volts. Belake No. 1 Voltmeter, with scale from 0 to 150 volts

and a special resistance box multiplying the value of the scale divisions by 80, each 126.00

High Range Voltmeters-(Continued).

List Price. 1184 No. 17. Range 0 to 5,300 volts and 0 to 150 volts.

No. 1 Voltmeter, with scale from 0 to 150 volts and a special resistance box multiplying the value of the scale divisions by \$5, each..... \$135.00

3847 No. 18. Range 0 to 6,000 volts and 0 to 150 volts.
No. 1 Voltmeter, with scale from 0 to 150 volts. Betrey and a special resistance box multiplying the value of the scale divisions by 40, each 145.00

The above listed High Range Voltmeters graduated to read in lamps, in addition to the graduation in volts, showing by simple inspection the number of arc lamps burning on the circuit, additional, each, \$5.00.

Reversing Keys.

For the convenience of those who have occasion to make many and rapid tests of the distribution of potential on electric circuits of unknown polarity, a Reversing Key may be applied, when specially ordered, to any of our voltmeters. This Key enables the user to open the circuit by turning the milled head through an angle of 45 degrees, or to reverse the direction of the current in the instrument by an additional movement of 45 degrees. An arrow cut on the head of the Key points towards the side of the instrument at which the current enters, when the needle is deflected over the scale. Price, extra, \$2 50.

Milli Voltmeters.

A.	Low	Resistance	Instruments,	Wound	with	Copper	Wire.
----	-----	------------	--------------	-------	------	--------	-------

Claries	2594	No. 1. Scale 0 to 4 volt by 100 divisions, each
•		readable to tenths, each
Clarina	2595	No. 2. Scale 0 to Tit volt, right and left, by 190
		divisions, each division representing reies of a
		volt, ench
Claries	2506	No. 3. Scale 0 to 11s volt, right and left, by 100
		divisions; supplied with contact key, reducing
		sensibility 10 times, each

ace instruments, Wound with Special Alley, Compensated for Temperature.

Comments	3677 No. 4. Scale 0 to .2 wills in 149 division, mad-	
	able to JOHE of a volt, each	4.0
Commeted	3878 No. 5. Scale 0 to 3 volts in 150 divisions, mad-	
	able to Add of a value and	41

Volt Ammeters.

It is frequently of great advantage to be able to de mine the amount of current used as well as the vol-employed, as is the case when testing incandement lan or in determining the internal resistance of telegraphs teries. Where the current is small it is quite possible combine the two instruments in one with excellent res-provided the proper care is taken to avoid making a we connection when using the instrument.

Code Word. Clash

2597 No. 1. Scales 0 to 150 volts and 6 to 1.5 amper reading to 150 volts by single volt distains, so to 14 amperes by 14s ampere divisions, each \$75.00

Other combinations will be made on special order, but they are not recommended in connection with high voltage or heavy currents.

Weston Standard Direct Reading Ill Ammeters and Ammeters.

Mil Ammeters.

No. 2598 One-quarter Size.

Clashing - 2598 No. 0. 150 mil ammeter scale; single scale divisions 1 mil ampere, readable to to mil

each..... 2600 No. 2. 600 mil ampere scale; single scale divisions 5 mil amperes, readable to ‡ mil amperes.

each... 2601 No. 8. 1,000 mil ampere scale; single scale divisions 10 mil amperes, readable to mil amperes, each.....

2602 No. 4. 1,500 mil ampere scale; single scale divisions 10 mil amperes, readable to mil amperes, each

Ammeters.

Classify Clutter

Clatterer

Claude

Claudia

Clause

Class

Classed

Classic

Classical

No. 1. 5 ampere scale; single scale divisions 45 of an ampere, readable to also of an ampere, 65.00 2603 No. 1.

each

2605 No. 3. 25 ampere scale; single scale divisions and of an ampere, readable to the of an ampere. each 85.DE

2606 No. 4. 50 ampere scale; single scale divisions i of an ampere, readable to 2s of an ampere, rach. .65.00

2607 No. 5. 100 supere avale; single avale division 1 ampure, readable to 15 of an ampure, cach. ... 70.00

2608 No. 6. 180 ampere scale; single scale division

1 ampere, readable to 12 of an ampere, each ... 75.00

No. 7, 200 ampere scale, cash. 80.00 No. 8, 250 " 80.00 No. 9, 300 " 80.00 No. 10, 400 " \$0.00 No. 11, 500 " \$0.00



One-quarter Size.



Leather Cases for Weston Portable Volt and Ammeters.

For those electricians who have occasion to travel and carry an instrument with them, a very neat and convenient Sole Leather Case, attiffened, lined with velvet, and supplied with shoulder strap, lock and key, has been devised, and is recommended as giving increased protection against accidental injury to the instrument. Price, when ordered instead of the usual wooden case, extra, \$3.50.

List No. 3047 £ Each\$4.00

List Pric



We furnish the cases in two different styles, as follows:
No. 2 Finish.—Border of case and face of letters nickel
plated and polished; background of letters, and back case
dead black japan. This is a next and durable finish, and
one we highly recommend for general use.
No. 3 Finish.—Border of front and face of letters nickel
plated and polished; background of letters dead nickel
plated and polished.
Each instrument has attached to it a lamp socket and
bluding posts for connecting the scale lamp to the circuit.

Each instrument has attached to it a lamp socket and binding posts for connecting the scale lamp to the circuit, it is also provided with a pair of thin wire leads, with autitable terminals for connecting the instrument to the main or shunt. With scale instrument there is sent a pair of detachable mirror supports and detachable mirrors.



Combined Instruments and Shunts.

	5000								
Addresible	3067	Finish	No	2, 0 to	200 at	mp. ln	2 au		sions 79.50
Adept	3068	14	**	3, 0 "	200	10	2		84.00
Communicri	2120	189	**	20 "	250	16	2	10	79.50
Comminted	2121	16	18	3,0 =	250	-10	2	40	84:00
Comb	2104	15		2,0"	300	116	. 2	3.0	79.75
Combat	2105	-94-	-06	3,01	300	8.6	2	11	84.25
Adhesise	3070	-24-	-25.	2,0 "	400	***	A	14	80.00
Adipuns	3071	10	-14	8, 0 **	400	XX	4	**	84.50
Combustible	2110	188	16	2, 0 "	500	**	5.	**	81.00
Comultan.	2111	-11	-11	3,0"	500	300	5	16	85.50
Adjustice	3073	**	18.8	2,0 "	600	94	5.	-84 -	82.00
Adjoin	3074	38	31	8, 0 **	600	7%	5	110	86.50
Comfort	2116	- 400	**	2,0"	750	95	2	-64-	83.00
Emfortable	2117	**		3, 0 "	730	76	4	-94	87,50
Adjudgment	3076	- 12	90	2.0 "	1,000		10	-84	84.00
Adjudicate	3077	-11	-87	3, 0 "	1,000	-	10.	-94-	88.50
Command	2122	110	27	2,0"	1,200	136	10	100	85.00
Commander	2123	-11		3,0"	1,200	441	10	M	89.50
Commence	2125	100	-40	2,0"	1,500	10-	10.	**	90.75
Commencing	2126	-01	-11	3,0"	1,500	11	10.	100	95.25
Commencing	2126			9,0	1,000		10		99.29

Weston Illuminated Dial Station Ammeters-

			((onti	nued)			- 1
Code Word.	List No.					•			LM THE
Adjunction	3079	Finish	No.	2, 0 to	2,000	amp. it	20 4	mp, divis	ions \$95.2
Adjunctive	3080	**	26	3, 0 "		11	20	-00-	89.2
Commission	2134	11	-	2, 0 "	2,500	-	20	101	96.7
Commit	2135	-	-61	3,04	2,500	- 0	20	**	101:1
Committal	2137	11	14	2,0"	3,000		20	*	99.1
Committed	2138	**	16	3,0"	3,000	141	20	**	183.
Commandant	2140	16.	111	2.0 "	3,500	- 44	20	40	102
Commitable	2141	-44	14	3,0"	3,500	- 11	20	24	105
Commiz	2143	- 11	XX	2,0 "	4,000	- 10	30	-	106.
Commixtion	2144	311	14	3, 0 "	4,000		30	- 11	111
Commodious	2146	760	110	2,0 "	4,500	**	40	**	114.
Commodity	2147		150	3,0"	4,500	20.	40	94	118.
Commoner	2149	16	.91	2,0"	5,000		30	w	121
Commonly	2150	**	**	3,0"	5,000		50	- 10	126
Categorise	1128	**	**	2,0"	6,000		50	- 14:	129
Category	1129	**	11	8,0 "	6,000		50	- 99	123
Calenary	1130	-	-11	2.0"	7,000		50	- 00	136
Catenarian	1137	**	.++	3,0"	7,000	- 10	50	- 44	141
Clayed	1138	91	-11	2.0"	8,000		100	- 11	151
Careful	1139		-		8,000		100	* 40	150
Colede	1138		41	2,0"	10,000	1 11	100		160
Colery	1239		-44	3,0"	10,000	1 11	100	-	17

Weston Illuminated Dial Station Ammeter

Combined Instruments and Shunts-Flush Pattern.



Comtont.	2120-1	mush	NO	2, 010	200 11	mp. na	4.00	Mr. creaman	_
Comically	21211			3, 0 "	200	-11	2	100	-
Come	30684		4	2,0%	250	+	2	-	1
Coming	3067+	84	44-	3, 0 "	250	-	8	18.1	- 13
Commanding	2124	86	31	2,0"	300	**	2	190	- 3
Comment	2127	-44		3, 0 "	300	-16	2	166	- 1
Commerce	2130	15	-	2,0 "	400	-26	5.	107	- 3
Commercial	2131	10.	16	3, 0	400	27	5	-0.	
Commingle	2132	74	99	2,0 "	500	310	5	100	
Commissary	2133	**	111	3, 0 "	500	W.	3	**	
Commitment	2136	21-		2,0"	600	10	3	-	
Committee	2139	**	**	3, 0 "	600	18.	5	M I	
Committing	2142	80	**	2,0 "	750	***	5	++	
Commade	2145	98.	77	3, 0 "	750	74	5	149	
Commodore	2148	**	**	2,0"	1,000	11	10	-91	
Conspire	2194	16.	**	3, 0	1,000	**	10	-	
Conspiringly	2197	911	40	2,0	1,300	48	10	16	
Constancy	2200	14	183	3,0 "	1,200	44.	10	-14	
Constantly	2203	10	115	2,0 "	1,500	14"	10	-00	
Constituent	2206	**	- 17	11.0"	1,500	#	10.	**	

Weston Illuminated Dial Station Ammeters-

			(Continued).	•	
Code Word	List No.		•	•		List Price.
Colloquial	2160	Pinish	No. 2, 0 to 2,000	amp in 20 an	np. divis	ions \$95.25
Collusies	2163	••	·· 8, 0 ·· 2,000	50	••	99.75
Colonist	2166	**	2, 0 2,500	20	**,	96.75
Colony	2169	**	" 8, 0 " 2,500	" 20	••	101.25
Colorises	2172	**	" 2, 0 " 8,000	" 20	••	99.00
Claying	2173	••	" 8, 0 " 8,000	50	••	103.50
Caroless	2176	••	" 2, 0 " 3,500	" 20	••	102.00
Cardooly	2179	**	" 8, 0 " 8,500	" 20	**	106.50
Caresed	2182	**	. 2, 0 . 4,000	80	••	106.50
Dialogus	2185	**	" 8, 0 " 4,000	80	••	111.00
Diameter	2188	• •	" 2, 0 " 4,500	40	••	114.00
Diamond	2189	"	" 8, 0 " 4,500	40	**	118.50
Luckily	2190	"	2, 0 5,000	50	••	121.50
Luckiness	2191	••	" 8, 0 " 5,000	., 20	••	126.00
Luckies	2192	**	2, 0 6,000	50	••	129.00
Luckiessly	2193	•	" 8, 0 " 6,000	50	••	133.50
Lucky	470	"	" 2, 0 " 7,000	50	••	136.50
Lucrative	471	**	" 3, 0 " 7,000	50		141.00
Litigant	472	"	2, 0 8,000	" 100	"	151.40
Litigate	473	••	" 8, 0 " 8,000	" 100	**	156.00
J.itu	4721	4	4 2, 0 4 10,000	4 100	**	166.50
Litudone	473	4	4 3, 0 4 10,000	4 100	4	171.00

Extra Shunts for Illuminated Dial Station Ammeters.

Andiron	94001) to	200	amp, in	2 n	mp. divi	sions	3.00
Andorn	94001 () "	250	4	2	4		3.00
Anemone	9402	0 "	400	••	5	**		3.50
Angel	9403	0 "	500	••	5	••		4.50
Angling	9404	0 "	600	•.	5			5.50
Angry	9405) ··	750	••	5			6.50
Angular	9406) ··	1,000	••	10	••		7.50
Angus	9407	,	1,200	••	10			8.50
Ann	9408	o ··	1,500	••	10	••		14.25
Announce	9410	0 "	2,000	••	20	••		18.75
Labrication	9411	o	2,500	• •	20	••		20.25
Lucid	9412	0	3,000	••	20			22.50
Lucidity	9413	o ··	3,500	••	20	••		25.50
Lucifer	9414	0	4,000	••	30			30.00
Lumping	9415	o ··	4,500	••	40	• •		37.50
Lumpish	9416	0 .,	5,000	••	50	••		45.00
Lumpishly	9417	o ··	6,000	•.	50	••		52.50
Literature	9418	۰۰ ٥	7,000		50	••		60.00
Lithograph	9419	o ··	8,000	••	100			75.00
Litugun	94194	0 4	10,000	4	100	4		90.00



No. 2164

Weston Illuminated Dial Station Voltmeters.

		St	yle	. A.	" or	Smalle	r Size	d.				
Code Word. Collided	List No. 2152	Scale	e O to	83	volts	in single	volt div	islons,	linbb	No.		55.00
Collier	2153	16	0	85	-	**	93		**	-	2	57,50
Collision	2155	100	0	100	44	**	**			-	2	56.05
Collocate	2156	16	0	100	100	10				100	3	58.50
Colloquy	2158	XX.	B **	105	**	16		4		100	2	38.86
Collusion	2159	**	B **	125	19		-0.0		100	100	a	50.58
Colon	2161		i.	185	-44	**	941			44	2	50.00
Colonel	2162	-11	0	185	= 4	**	4		330	100	2	62.50
Colonizing	2164		0"	150		-			100	-44	2	62.00
Colonnado	2165	**	0 "	150	491	91	185		**	**	3	64.50
Color	2167	71.	0"	250	- 34	two	44		-		2	64.00
Colorable	2168	**	0"	250	- 9Y	-	-01		**	64	8	66.50
Colossal	2170	**	0	300	- 85	**	91			**	2	66.00
Cutt	2171	**	0"	300	- 41	**	**		*	- 00	3	68.50
6												



No. BOt3-Front.



No. 3043 - Reir.

Style "B," or Larger Sized.

			-			-				
Emersion	2174	Scale	0 to	115	volts i	n single	volt division	s. Inchib	No I	75.00
Emetic	2175	**	0	125	**	**	**	-0	H 3	79.50
Emigrant	2177	-	0.44	150	**	**	*	- 14	14.35	76.00
Emigrata	2178	**	0 **	150		**	13.	- 1	~ 3	80.56
Emigration	2180	**	0	175		**			2	77.00
Enile	2181	**	0	175	**	**		-0	+ 3	81.50
Embound	2183	-	0."	230	**	two			" 2	76.30
Embournes.2	2184	- 41	0 ==	250	**	100	-	100	0.3	82,34
Einhottle	2186	41	0 -	300	791		44	100	77.3	79.30
Embottled	2187	++	0 40	300	**	18	-	2	11.3	81.50
Adjunt	3040	***	0	600	- 11	five	-	-	11.2	80.00
Adjurar	3041		0	600	**	-	100	- 11	-11.3	84.50
Adjust	3043	-	0"	730	9 15	**	-	-	4 2	81.00
Adjusted	3044	44	0	750	. AA	46	19	**	-4.3	85.50

None—For higher ranges, extra multipliers are furnished. Priors quoted on application. In placing order, please give style of lamp socket.

Weston Illuminated Dial Station Voltmeters.



No. 2115

							•		
Code Water	Les 54.								
Contrada to	2100	Scale	: 12	. 3	* of:- n	an re	not ensule	inca 🦠	:>~: W
Co and a	2101			7.27					1.75 50
Count	2162	•	4	574		-			2 74 M
Commission	2193		ŀ	. 74		•		•	: 14.54
C. W. W. 21"	2106								: 27 H
Comp uple	2107								1.85.50
Complete time	2100		1	174		.•			: 71.1d
Company we	2109	-	1 -	250					: 82.54
(marriy	2112	-	1	344					1 75 50
Con:	2113	-	F	Shel					1 53 50
Comsery	2114		+			į.,	•		2 51 24
Const	2115	-	ŧ	G.s:					84 11
Control	2118		F	774					\$1.00
(ime	2119	٠.	ł						85.50

Norm—For higher ranges, extra multipliers the form of the Prices quoted on application. In placing reset $p_{max}(g(t), s(t))$ of lamp socket.



LEMISATED DIAL, PLESS PATTERS.



ILLUMINATED DIAL, STANDARD.

Weston Potential Indicators.

In the Potential Indicator a modification is made of the instrument for the purpose of second a much larger movement of the index of massize with an instrument having a range of 100 volts we can secure a movement of the index equal to about on their of minch for a change of one volt or pressure, but this instrument would only begin to read at 90 volts. The instruments would only begin to read at 90 volts. The instruments are so constructed that the index will be very near the octive of the scale for the normal voltage. The scale is figure in two ways: (4) in volts only, or (2) two sits of figures or given, one set giving the actual voltage, and the cell rost indicating the number of volts above or below the termal voltage, which is marked zero. The prices for the scinistruments are the same as for corresponding ranges of Style "B" Illuminated Dial Station Voltmeters

Hardship

Weston Railway, Isolated Plant and Feeder

	POR DIRECT CURRENT CIRCUITS ONLY.
Code Word.	List No. Lastro.
Herbert	1185 No. 1, 3 Volt Scale. Scale of 150 divisious, each division equal to .00 of a volt and read- able to tenths of a division, or .002 volts in any part of the scale, each
Horatio	1187 No. 2, 6 Volt Scale. Scale of 120 divisions, each division equal to .05 of a volt and read- able to tenths of a division, or .005 volts in



No. 1942.

25.00

Harringped 1940 No. 6, 75 Volt Scale. Scale of 130 divisions, such division equal to .5 of a wolt and readable to tenths of a division, or .05 volt in any part of the scale, each.

Harren 1941 No. 7, 125 Volt Scale. Scale of 125 divisions, each division equal to I volt and readable to tenths of a division, or .1 volt in any part of the scale, each.

Hairout 19424 250 Volt Scale. Scale of 125 Divisions, each division equal to 2 volts and readable to teaths of a division or 1 volt in any part of the scale, each.

Harlopuin 1943 No. 9, 300 Volt Scale. Scale of 150 divisions, each division equal to 2 volts and readable to tenths of a division, or 2 volt in any part of the scale, each.

each division equal to I volt and readable to tenths of a division, or I volt in any part of

the scale, each.

No. 11, 750 Volt Scale. Scale of 150 divisions, each division equal to 5 volts and reselable to tenths of a division, or .5 volt in any part of the scale, each.

Weston Railway, Isolated Plant and Feeder Ammeters.

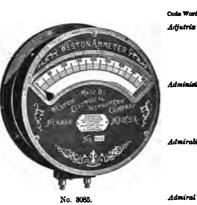
FOR DIRECT CURRENT CIRCUITS ONLY.

Code Word	List No.	Round Pattern.	sel Price.
Hoses	1944	No. 1, 1 Ampege Scale. Instrument combined	
		with shunt. Scale of 100 divisions, each	
		division equal to .01 of an ampere, readable	
		to tenths of a division, or .001 ampere in any	
		part of the scale, each	\$25. DQ
Eligh	1945	No. 2, 5 Ampere Scale. Instrument combined	
		with shunt. Scale of 100 divisions, each	
		division equal to .05 of an ampere; readable	
		to tenths of a division, or .005 ampere in any	
		part of the scale, each	25.00
Huldon	1945	No. 8, 10 Ampere Scale. Instrument combined	
		with shunt. Scale of 100 divisions, each	
		division equal to .1 of an ampere, readable to	
		tenths of a division, or .01 ampere in any part	
		of the scale, each	25.00
fumphray	1947	No. 4, 15 Ampere Scale. Instrument combined	
		with shunt. Scale of '150 divisions, each	
		division equal to .1 of an ampere, readable to	
		tenths of a division, or .01 ampere in any part	
		of the scale, each	25.00
igot-	1999	No. 5, 25 Ampere Scale. Instrument combined	
		with shunt. Scale of 125 divisions, each	
		division equal to .5 of an ampere, readable to	
		tenths of a division, or .05 ampere in any part	
		of the scale, each	25.00
igoled	2000	No. 6, 50 Ampere Scale. Instrument combined	
		with shunt. Scale of 100 divisions, each	
		division equal to .5 of an ampere, readable to tenths of a division, or .05 ampere in any part	
		of the scale, each	
Spotry	1000	No. 7, 75 Ampere Scale. Instrument combined	25.50
Mond	1000	with shunt. Scale of 150 divisions, each	
		division equal to .5 of an ampere, readable to	
		tenths of a division, or .05 ampere in any part	
		of the scale, each	26.00
divlage	2678	No. 8, 100 Ampere Scale. Instrument with	_0.00
	20,0	separate shunt. Scale of 100 divisions, each	
		division equal to 1 ampere, readable to tenths	
		of a division, or .1 ampere in any part of the	
		scale, each	26.50
Lijutant	3081		
•		separate shunt. Scale of 150 divisions, each	
		division equal to 1 ampere, readable to tenths	
		of a division, or .1 of an ampere in any part	
		of the scale, each	27.00

Admirable

Classed

Weston Railway, Isolated Plant and Feeder Ammeters—(Continued).



List No. 3082 No. 10, 200 Ampere Scale. Instrument with Adjutrisseparate ahunt. Scale of 100 divisions, each

> of a division, or .2 ampere in any part of the scale, each...... \$28.80 3083 No. 11, 250 Ampere Scale. Instrument with separate shunt. Scale of 125 divisions, each division equal to 3 amperes, readable to tenths

division equal to 2 amperes, readable to tenths

of a division, or .3 ampere in any part of the scale, each...... 28.25 3084 No. 12, 800 Ampere Scale. Instrument with separate shunt. Scale of 150 divisions, each division equal to 3 amperes, readable to tenths of a division, or .2 ampere in any part of the

> separate shunt. Scale of 80 divisions, each division equal to 5 amperes, readable to tenths

3085 No. 18, 400 Ampere Scale. Instrument with

of a division, or .5 ampere in any part of the 1088 No. 14, 500 Ampere Scale. Instrument with Clausure separate shunt. Scale of 150 divisions, each division equal to 5 amperes, readable to tenths

of a division, or .5 ampere in any part of the 1089 No. 15, 600 Ampere Scale. Instrument with separate shunt. Scale of 120 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the

1092 No. 16, 750 Ampere Scale. Instrument with Clawing separate shunt. Scale of 150 divisions, each division equal to 5 amperes, readable to tenths of a division, or .5 ampere in any part of the 1093 No. 17, 1,000 Ampere Scale. Instrument with Clauless separate shunt. Scale of 100 divisions, each division equal to 10 amperes, readable to

tenths of a division, or 1 ampere in any part of the scale, each 32,56 Clay 1094 No. 18, 1,200 Ampere Scale. Instrument with separate shunt. Scale of 190 divisions, each division equal to 10 amperes, readable to tenths of a division, or I ampure in any part

Weston Railway Isolated Plant and Feeder Ammeters—(Continued.)

Code Word.	List No.	List Price. Each.
Sarcoma		No. 19, 1500 Ampere Scale, instrument with separate shunt, scale with 150 divisions, each division equal to 10 amperes; readable to tenths of a division or 1 ampere in any part of the scale, each
Sarcomstus	21362	No. 20, 2000 Ampere Scale instrument with separate shunt, scale with 100 divisions, each division equal to 20 amperes; readable to tenths of a division or 2 amperes in any part of the scale; each
Sarcophgan	21363	No 21, 2500 Ampere Scale, instrument with separate shunt, scale with 125 divisions, each division equal to 20 amperes, readable to tenths of a division or 2 amperes in any part of the scale, each

Differential Volt Meters.

In order to obviate the observing of two independent instruments and the incidental reading errors when bringing up dynamos to the normal voltage for throwing in on bus bar, an illuminated dial differential voltmeter has been devised. There is a difference in construction in these instruments for either two wire or three wire systems.

Two Wire System.

Sarcophagus 21364	Scale	130 (130	volts	in 2	divisions,	No.	2 fini∗h,	85.00
Sarcophay 21365	"	500 (500	**	10	4	No.	2 "	90.00
Barcorampus 21366	"	600-0	600	"	10		No.	ુ "	95.00

Three Wire System.

Sarcueis	21367	Scale	130 0-130	volta	in 2 d	ivision	ns, No. 2 fir	i-h, 85.0	00
Baroutic	21368	4	500 0 500	44	10	**	No. 2	" 90.C)0
Sarculation.	21369	-	600-0-600	4	10	*	No. 2	95.0	00
No 2	Aniah la	heah	black fanus		h niek	of tell	mmin.e		

No. 2 finish is dead-black japan with nickel trimming. No. 3 finish, which is all nickel plated, brass or copper finish, is \$4.50 extra.

Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits.

Each instrument is enclosed in a leather case, supplied with shoulder strap, lock and key and furnished with a pair of flexible connecting cords, for both of which so extra charge is made.



Single Scale Instruments.

2614 No. 1. Ponie 1.5 to 7.5 volts, from 1.5 volt up in # voit divisions; best range 2.5 to 6.5 volts, within that range readable to ## of a volt,

2615 No. 2. Scale 1.5 to 10 volts, from 1.5 volt up in t volt divisions; best range 4 to 9 volts, within that range readable to res of a volt. each 2616 No. 3. Scale 2 to 12 volts, from 2 volts up in

To volt divisions; best range 5 to 11 yolta, within that range readable to 18 of a volt, 2817 No. 4. Scale 3 to 15 volts, from 3 volts up in the volt divisions; best range 5.5 to 13 volts, within that range readable to the of a volt,

2618 No. 5. Scale 8 to 20 volts, from 8 volts up in † volt divisions: best range 7 to 18 volts, within that range readable to 1 of a volt, each 2619 No. 6. Scale 10 to 60 volts, from 10 volts up in 1 volt divisions; best range 25 to 55 volts, within that range readable to 15 of a volt. Cleanum each

Clear 2620 No. 7. Scale 15 to 75 volts, from 15 volts up in y volt divisions; best range 30 to 65 volts, within that range readable to 14 of a volt, 2821 No. 8. Ec le 30 to 130 volta, from 30 volts up in 1 volt divisions; best range 50 to 110 volta, within that range readable to $\frac{1}{10}$ of a volt, Cleared

each

Cleare

2622 No. 9. Scale 30 to 150 volts, from 30 volts up in 1 volt divisions; best range 70 to 125 volts, within that range readable to 1s of a volt, 87.50 each ... 2623 No. 10. Scale 60 to 300 volts, from 60 volts up Cles in 2 volt divisions; best range 140 to 250 volts, within that range readable to 1 of a volt, Clement

2624 No. 11. Scale 100 to 600 volts, from 100 volts up in 5 volt divisions; best range 250 to 530 volts, within that range readable to 1 of a volt, each.....

Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits—(Continued)

High Range Voltmeters with Extra Multipliers.

nign k	Kange voitmeters with Extra multiplien	5.
	Single Scale Instruments.	
Code Word.	List No. List Pri	00 .
Clonned	2625 No. 12. Scale 200 to 1,200 volts; scale like No.	
	8 with ten times the value (10 volts) per divis-	
	ion, each \$ 90.	00
Cleanly	2626 No. 13. Scale 300 to 1,500 volts; scale like No.	
Canada	9 with times the value (10 volts) per divis-	
	ion, each 97.	œ
Cleanness	2627 No. 14. Scale 400 to 2,400 volts; scale like No.	
	8 with twenty times the value (20 volts) per	
	division, each	90
Cleaner	2628 No. 15. Scale 600 to 3,000 volts; scale like No.	
	10 with ten times the value (20 volts) per divis-	
	ion, each	00
	IOU, CHCU	•
	Double Scale Instruments.	
	In ordering double scale instruments it is necessary to	
	choose the ratio of the two scales, as 1 to 2 for self-con-	
	tained instruments, since it is not feasible to have the	
	temperature regulator answer for two scales of greater	
	ratio. If a higher range is desired to be obtained by	
	means of a separate multiplier the ratio is not com-	
	pulsory, since the temperature regulator then answers	
	for the range of the instrument self-contained, while the	
	dimension of the wire in the multiplier is so chosen that	
	temperature corrections for the multiplier are not neces-	
	sary if the instrument is kept in circuit for only a short	
	time. A self-contained instrument, with single or double	
	scale, can thus be supplied with three or more scale	
	values. For most practical and all laboratory purposes	
	we recommend the double scale instruments as affording	
	a wider range of greater accuracy.	
Clergy	2636 No. 16. Scale 3 to 15 volts and 1.5 to 7.5 volts;	
0.2.75	upper scale like No. 4, lower scale like No. 1,	
		~~
	each 70.0	JU
Clorical	2637 No. 17. Scale 3 to 20 volts and 1.5 to 10 volts;	
	upper scale like No. 5, lower scale like No. 2,	
	each 70.0	90
Client	2638 No. 18. Scale 20 to 120 volts and 10 to 60 volts,	
	upper scale like No. 8, lower scale like No. 6,	
	each 70.0	00
Cuf	2639 No. 19. Scale 80 to 150 volts and 15 to 75 volts;	,,
Cay		
	upper scale like No. 9, lower scale like No. 7,	
	each 75.0)0
Climate	2640 No. 20. Scale 80 to 200 volts and 15 to 100 volts,	
	upper scale like No. 5, lower scale like No. 2,	
	with ten times the value per division, each 75.0	10
Climatic	2641 No. 21. Scale 60 to 800 volts and 80 to 150 volts,	. •
Calumbra by	upper scale like No. 10, lower scale like No. 9,	
	•••	
	each 80.0	16
(limaz	2842 No. 29. Scale 100 to 600 volts and 50 to 800	
	volts, upper scale like No. 11, lower scale like	
	No. 10, each	
		-

Code Word. List No.

Weston Portable Standard Direct Reading Voltmeters for Alternating and Direct Current Circuits-(Continued).

Inspectors' Pattern Voltmeters.

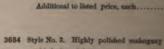
Under the name of "Inspectors" Pattern" we funda the Voltmeters in a highly polished mahogany box, his which the instrument is permanently fastered. All of these instruments are provided with a revening ker-Instead of the regular binding posts, contact plus are provided, on which contact is made by means of contact cue fastened to flexible cords. The flexible cord is sliber furnished with plain pins or it may be provided with a contact plug to fit our lamp adapters.

For Direct Current Circuits.

Community 3679 Style No. 1. Highly polished malograpy



No. 3679.



3684 Style No. 3. Highly polished makegang hox. with lock and key; compertment with set of four lamp adapters (Edison, Thomson-Bouston, Westinghouse, Weston); therible

> adapters. Additional to listed prices, each For Alternating Current Circuits.

connecting cord with plug contact to fit lamp.

with lock and key, flexible connecting own



No. 5688.

3683 Style No. 1. Highly polished mahogany tor. with compartment box with lock and lay. The compartment is intended for the reception of the flexible connecting cord and one of more lamp adapters. Additional to limit price, each



Plugs, Cords and Lamp Adapters.

The cut shows the flexible conductor, with plug contact for inserting in the Adapters and for quickly reversing the current. These Lamp Adapters are made in four styles—viz., for Edison, Thomson-Houston, Westinghouse and Weston sockets.

Code Word	List No.	Like	a Price.
Ciagish	2629	Price of Single Lamp Adapters, each	\$1.25
Claymore	2630	Plexible Connecting Cord, with plug contact,	
		if ordered separately, each	1.25
Clean	2631	Flexible Connecting Cord, with plain contact,	
		if ordered separately, each	1.25
Ferdinand	3685	Mahogany Box with set of 4 Adapters and	
		Flexible Cord, each	7.50

Whitney Electrical Measuring Instruments.

It is important in ordering instruments to state whether they are to be used in a vertical or horizontal position.

Whitney Voltmeters for Continuous Currents

Class A.

Monsey	2295	No	. 1.	Scale	0	to	15	volts in	ń	volt div., ea	ch	20.00
Measure	2296	41	9.	- 64	0	**	100	**	1		**	23,00
Measured	2297	-46	15,	**	0	5.0	150	**	1		16.	25.00

Nore-These instruments will heat if left too long in circuit.

Class B.

Moosuring	2298	No	. 2.	Scale	0	to	15	volta in	1/4	volt div.	each	25.00
Meat	2299	. 16	10.	111	0	"	100	-116	1	**	24	28.00
Mechanis	2304	**	16.	- 17	0		150	- 17	1	11	**	30.00
Mechanica	2305	**	21.	XX	0	**	200	- 44	2	10		40.00
Machanism	2306	16	25.	**	0	18	600	33	5	**	**	50.00
Medalet	2307	-	27.	-11	0	26	750	116	5	**	**	60.00
	10	-								THE WALL	1	

Note-These instruments may be left continuously in circuit by giving the contact button a quarter turn.

Whitney Voltmeters for Alternating Currents.

Medalist	2307 Scale 0 to 75 volts, reading from 15 to 20 volts, in 1 volt divisions, from 20 to 75 volts in 1	
	volt divisions, each	40.00
Medallion	2308 Scale 0 to 150 volts, reading from 30 to 40 volts	



Co. 2007 \$



Whitney	y Am	m	ete	TE	for	Cor	rtin	non	8 C	urre	nts.
Code Word.	List No.									D	a.Trim
Medicinat	2309	No.	31.	Scale	Oto	10 40	np. to	- am	p. div	"each!	121.04
Medicine	2310	18	39.		9	25	-410	+	**		25.86
Molitat	2311		473.	**	0"	50	44.		*	-	24.00
Meditated	2312	0	47.		0 **	100	11	1	14	**	25.00
Medium	2313	**	51.	11.	0	150	**	1	144	***	36.24
Medley	2314	0	35.	10	0	280		2	94	44	35.88
Medusa	2315	u.	61.	*	0	400	"	5	- 95.	-	45.81
Meek	2316	24	65.		0	500	**	5	- 11	- 6	\$0.00
Meckly	2317	**	66.		0 "	600	**	5	*	16	\$5.00
Meckness	2318	**	67.		0	700	145	7		-	60.00
Meerschaum	2319	**	68.		0"	800	- 11	10	**	-	65.88
Meeting	2320	*	69.		0	1000	-64	10	-	- 10	76.00

No. 2309.

	26-1	And the second second second second second
Mellurg		Scale 0 to 5 amperes, from 1 to 5 amperes in is ampere divisions, each
Melody	2322	Scale 0 to 25 amperes, from 5 to 25 amperes, in
		ampere divisions, each 50.00
Melon	2323	Scale 0 to 50 amperes, from 10 to 50 amperes, in
		4 ampere divisions, each 55.80
Melt	2324	Scale 0 to 100 amperes, from 10 to 100 amperes,
-		in I ampere divisions, each 60.50
Metted	2325	Scale 0 to 150 amperes, from 15 to 150 amperes,
	12000	in 1 ampere divisions, such 65.00
Melting	2326	Scale 0 to 200 amperes, from 20 to 200 amperes,
	-	in 3 ampere divisions, each 70.8
Member	2327	
autinovi,		in 2 ampere divisions, each 25.0
Membrane	2328	
AMERICAN SERVICE		in 4 ampère divisions, cach 80.1
Memento	2329	Scale 0 to 500 amperes, from 50 to 500 amperes.
and other states	2010	in 5 ampere divisions, each





No. 2331.

Carrying Cases for Whitney Instruments.

2330 Wooden Carrying Case, with handle, each 1.60

2331 Leather Carrying Case, with handle and shoulder



Bristol's Recording Ampere Meters.

For Direct Current.

8ard	21370	Working range to 12 amperes, 24-hour chart, total range 0 to 15 amperes	60.00
Surduckete	21371	Working range to 25 amperes, 24-hour chart, total range 0 to 30 amperes	60.00
Sardun	21372	Working range to 50 amperes, 24 hour chart, total range 0 to 60 amperes	
Sardel	21373		60.00
Sardine	21374	Working range to 270 amperes, 24 hour chart, total range 0 to 300 amperes.	80.00
Sardine	21375		80.00
Sutchal	21425	Working range to 1100 amperes, 24 hour chart,	:
Sale	21426	total range 0 to 1200 amperes	80.00
Satricas	21427		90.00
		total range 0 to 3600 amperes	100.00

For Alternating Current.

Batriite	21428	For 8400 Alts. per minute, working range to 8 amperes, 24 hour chart, total range 0 to 10	
		amperes	60.00
Sateliliums	21429	For 15000 Alts. per minute, working range to 80 amperes, 24-hour chart, total range 0 to	
		100 amperes	60.00
Acop	25591	For 15000 Alternations per minute, working	
		range to 20 Amperes 24 hours chart	60.00
Aroptic	25592	For 15000 Alternations per minute, working	
	•	range to 50 Amperes, 24 hours chart	60.00
Acuraid	25593	For 7200 Alternations per minute, working	
		range to 130 Amperes, 24 hour chart	60.00

luk and 100 charts with each instrument. Meters for other ranges made to order.

WESTERN ELECTRIC COMPANY.



No. 21379.

No. 21893.

Bristol's Recording Voltmeters.

For Direct Current.

Code Word.	List No.	
Bardinian.	21376	Working range to 5 volts, 24-hour chart, teta
Sardoin	21377	Working range to 25 volts, 24-hour chart, sur
Surdunic	21378	
Surdonys	21379	
Surre	21380	Working range to 120 volts, 24-hour chart, 60 range 0 to 130 volts
Saryana	21381	Working range to 130 volts, 24-hour chart, tot range to 140 volts
8ari	21382	Working range to 200 volts, 24-hour chart, tot range 0 to 250 volts
Sarigne	21383	Working range to \$75 volts, 12-hour chart, tot range 0 to 300 volts
Surk	21384	Working range to 550 volts, 24-hour chart, tot range 0 to 600 volts
Sarlae	21385	Working range to 550 volts, 12-hour chart, tot range 0 to 600 volts
Sarlyk	21386	Working range to 600 volts, 24-hour chart, tot range 0 to 650 volts

For Alternating Current.

Sarking	21387	Working range to 60 volts, 24 hour chart, tot range 0 to 65 volts
Sa, matre	21389	Working range to 110 volts, 24-hour chart, tot- range to 120 volts
Sarment	21390	Working range to 120 volts, 24-hour chart, to range to 130 volts
Sarnantarus	21391	Working range to 150 volta, 24-hour chart, tot range 0 to 160 volta

Bristol's Recording Watt Meters. For Direct Current.

Secondor	21392	Working range to 5 K.W, all voltages, 24 hor chart, total range to 6 Kilo Watta
Som	21393	Working range to 15 K-W all voltages, 24-hor chart, total range 0 to 18 Kilo Watta
NJ m.y	21394	Working range to 25 K.W all voltages, 24 hot chart total range : to 30 Kilo Watts
Saros	21395	Working range to 75 K W all voltages, 24 hos chart total range to 90 Kilo Watts
Sarplar	21396	Working range to 150 K-W all voltages, 11 hour chart, total range 0 to 180 Kilo Watta.

Ink and 100 charts with each instrument. Meters for other r made to order.



No. 6842.

Thompson Recording Watt Meters.

The Thompson Recording Watt Meter is a motor meter and measures accurately the amount of power consumed in the circuit upon which it is placed. It is designed for use on both alternating and direct currents, and for the measurement of light or power energy in either large or small quantities. The following are the standard sizes and net prices:

Two WIRK, 50 VOLTS.

Code Word.	List No.	Amperes.	Lamps 16 C. P	List Price Each
Nabob	6843	10	10	25.00
Nacre	6540	15	15	30.00
Nacrite	6541	25	25	36.00
Naind	6542	50	50	45.00
Naidor	65421	75	75	55.00
Nail	6543	100	100	70.00
Nailing	6544	150	150	80.00
Nailed	6950	300	300	110.00
Naiwly	6951	600	600	150.00
Naked	6964	1,200	1,200	250.00
Nab	69641	2,500	2,500	330.00
Nabit	6965+	5,000	5,000	370.00
Nablum	6968	8,000	8,000	400.00

Thirty Volt Meters for use in connection with Constant Potential Arc Lighting Circuits will be furnished at the price of the same Ampere capacity of 50 Volt Meters.

Two	w	100 #0	110	VOLTS.
1 WO	WIRE,	IUU TO	110	V OLTK

Nankeen	6935	5	10	27.50
Nape	6734	10	20	30.00
Naptha	6565	15	30	33.00
Napkin	6566	25	50	45.00
Naples	6567	50	100	50.00
Nacarat	6567 +	75	150	70.00
Nappy	6568	100	200	80.00
Narciasus	6569	150	3(4)	100.00
Nach	6569#	200	\$(N)	110.00
Narcotic	6954	3(x)	(600)	130.00
Nacker	6954 +	450	900	160.00
Narratice	6955	600	1,30	190.00
Narrow	6965	1,200	2,400	320.00
Saprot	6966	2,500	5,000	380.00
Sapungo	6967	5,000	10,000	425.00
Sapukull	6968	H,ORD	16,000	460.00
		Turel Wire, 22	0 Volts.	

Narrowing	6735	74	33	35.00
Narrower	6563	15	(9)	50.00
Name	6597	. 25	110	60.00
Natal	6570	50)	221	75.00
Nacrrous	6570 +	75	(# H)	85.00
Nation	6571	100	140	100.00
Native	6572	150	GO	125 00



Thomson Recording Watt Meters—(Continued.)

For Power Service.

Two WIRE, 220 VOLTS.

Code Word.	List No.		Horse-	List from
	6948	Amperes. 5	power. 11	\$ 36.50
Natively		-		
Nativity	6538	15	81	50.00
Natural	6555	25	7	64-89
Naturalist	6556	50	15	70.00
Nadub	65561	75	20	85.00
Naturalize	6557	100	25	185.00
Nature	6558	150	40	128-99
Nadir	6558}	200	50	135-00
Nauma	6813	300	80	150-00
Nadelstein	68134	450	125	100-00
Nave	6814	600	160	220-00
Navigable	6966 <u>†</u>	1,300	330	300.00
Narve	6 966 }	2,500	700	425.00
Nacrase	6970 1	8,000	1,400	475.00
Nafe	69711	8,000	2.200	529.00
		Two Wire, 500 V	OLTS.	

Astride	6949	3	14	\$ 40.00
Nag	6950ł	10	5	55.00
Astringe	6539	15	71	06.00
Astringency	6559	23	15	06.00
Astringent	6560	50	30	85.00
Nàg	6560ł	.75	80	185.00
Astringing	6561	100	80	110-00
Astrology	6562	150	100	185.00
Naggy	6562±	200	120	185.00
Astronomer	6815	300	200	175.40
Nagor	68151	450	300	225.00
Astute	6816	600	400	275.00
Astutely	69671	1,200	800	375-00
Natant	6973ł	2,500	1,600	480.00
Nais	6974	5,000	3,300	. 500.00
Naif	6975±	8,000	5,400	200.00

Primary Circuits

1,000 to 2,000 Volts. PRICES INCLUDE TRANSFORMER.

		Amperes
Nailball	6572ł	10
Narigably	6573	20
Nacigate	6574	30
Natigator	6575	60
Natigation	6576	120 168
Neel	6577	300 210
Nailbensk	6577↓	600

Portable fleters for Street Car Testing, Etc.

•			500	V	OLTS.		
Nather	21000	1‡ R	. P.,	3 A	mį	·	55.00
Natheres	21001	71		15			70.00
Nathery	21002	13	. ;	23	*		85.00
Nailheaded	21003	30	н ;	50	4		100-00

Thomson Recording Watt Meters—(Continued.)

Arc Circuit Meters.

Code Word.	List No.														List Price.
Nationak	21004	41	ights, 6	136	mp		44						 		
Noissant	21005	4	0 10	2	-								 		65.00
Naint	21006	S	4 6	W	**				1				 		75.00
Natecta	21007	8	" 10		*			200					 		75.00
		A	rc Circ	uit .	Stat	ion	П	et	er	\$.					
Namelessly	21008	35	lights,	64	Am	p			cei	600	-	24	 	660	110.00
Nameplate	21009	35	**	10	-65								 		110.00
Namingly	21010	50	4	64	-		15	12					 		125.00
Nan	21011	50	- 14	10	-4K								 		125.00
Nandor	21012	65		64											135.00
Nondu	21013	65	-01	10	-64										135.00
Nantes	21014	80	- 16	n.c.	- 84										150.00



No. 21404

The Scheeffer Recording Watt Meter.

For Alternating Circuits.

LIGHTS RATED ON A BASIS OF 50 WATTS PER LAMP.

50 Volts.

Barteriel	21404	10	Lights,	10	Amperes	 	 \$25.00
Sartorious	21405	15	44	15	- 44	 	 30.00
Sary	21406	20	**	20	-14	 	 34.00
Sant	21407	30		30	- 10	 	 37.00
Sushorn	21408	40	-10	40		 	 41.00
Sasin	21409	50		50	44		45.00
Sassafras	21410	75	a	75	46	 	 55.00
Sassanage	21411	100	- 46]	100	46	 	 70.00
Same	21412	150	H 1	150	AL.	 	 80.00
Samolin	21413	300	100 2	100	10	 	 110.00

100 to 110 Volts.

Bassoral	21414	10	Lights,	. 5	Amper	es
Bassoralla	21415	.20		10	- 14	30.00
Samybark	21416	-30	-44.	15	46	
Sastra	21417	40	- 44	20	- 44	41.00
Sat	21418	50	-64	25	14.	45.00
Saten	21419	60	-	30	-	47.00
Satante	21420	70	44	35	44	48.00
Satanfeat	21421	100	- 10	50	16	50.00
Batantem	21422	150	**	70	ia.	70.00
Saturalut	21423	200	14 9	00	**	80.00
Satanophon	y21424	300	-	150	44	100.00



The Shallenberger Meter.

For Alternating Current.

The meter is a direct reading instrument, recording the smount of current which has passed through it, or a dial (herewith illustrated) presenting much the su-appearance as that of an ordinary gas meter. The unit of measurement is the "ampere hour."

Code Wood.	List No.										Dept	
Surpline	21397	2	Amperes								\$13	23
Sarranta	21398	10									- 15	м
Servi	21399	20									- 15	75
Surenperille	21400	40	160								- 22	88
Surma	21401	80										23
Surwert	21402	120	M .								- 41	.75
Surt	21403	100	-14								- 58	п

Duncan Alternating Current Recording Meters

For Lamp Hours or Ampere Hours.

Code Word.	List No.		For	50	Vott	Lamps.			E	of the
Scott	21645	5	16 c.	p. 1	Lamps	Capacity	or 5	Amperes		\$25.00
Scurt	21646	10			14		10	4	-141	25.00
Seculdite	21647	15	165		-	11	15			30.00
Nerrog	21648	20	- 38		24	-0.	20	-		33.00
Serumble	21649	25	.74		-	-01	25	H		16.00
Serrep	21650	30	- 19		19	100	350	41		38.00
Serupe	21651	40	110		M	16	10.	16		41.00
Secuteh	21652	50	-01				50			45.00
Servet	21653	60			49	*	-60			** **
Sevent	21654	80	.0.		16.		80	M		60.00
Servem	21655	100	119		96	-94	400	2		70.00
Serrerh	21656	120	-46		-	**	TO			80.00
Serva	21657	160	-11		M		100	-	-	100.00
Seribble	21658	200				- 14	200			120.00
			For	10	o Vol	Lamps.				
Serthe	21659	.10	16 c.	p. 1	amps	Capacity	or a	Amperes		28.00
Serimp	21560	20	- 15		-	. 46	-10			30.00

States	21007	200				4100			100.00
Seribble	21658	200	-	200	- 14	200			120.00
			For 1	oo Vol	t Lamps				
Serthe	21659	.10	16 c. p.	Lamps	Capacity	cor L	Amper	XIR	28.00
Serimp	21660	20	- 15	-		-10	100		30.00
Serip	21661	30	-	11.86	-9	15			33.00
Script-	21662	40	146	95	-0.	250	-		37.00
Seripture	21663	50	- 4	**	44	20			41.00
Sectioner	21664	60	- 10	14	11	301	- 10		45.00
Serofuhe	21665	80	-400	-04		40	-		50.00
Sevolt	21666	100		- 10		50	44		55.00
Scrub	21667	120	88.	- 14	-	143	- 4		60.00
Seruple	21668	160	189	*	10	30			75.00
Secuting	21669	200	-	-	- 10	100	-		85.00
Scrutaire	21670	240	-	-	-11	120	-		95.00
Hend	21671	320	76	111	75	160			115.00
Seuglio	21672	400	*	No.	**	200			135.00
	M. Auren	40.0				42.40			

Primary	Meters	for	1.000	or :	2.000	Vott.	Current	

8	eatt	21673	5	Angeres	26.50
-15	brellery	21674	10	The second second	30.00
25	cutting	21675	15	*	36:00
8	colplare	21676	20	The second secon	
8	ir at the	21677	20	A COLUMN TO THE OWNER OF THE OWNER OWNER OF THE OWNER OW	





Duncan Alternating Current Recording Meters Continued.)

Duncan Recording Wattmeters for Alternating Currents.

Lamp Rating based upon 50 Watt Lamps.

	L	րանի	Rating	based up	on 90 Wa	tt Lam	p4.		
			For 5	o Volt	Circuits.				
Benfarer	21687	5	16 c. p	. Lampe	Capacity	or 5 A	mper	rs	\$25.00
Seul	21688	10		4 -		10	*		
Beam	21689	15		44	44	15	4		30.00
Seamorn	21690	20	4	4.	•	21)	4		33.00
Benneters	21691	25	4	4	4	25	4		36.00
Seur	21692	30	44	*	**	30	*		
Bearch	21693	40			•	40	44		4 : 44
Seuson	21694	50			44	50	4		40 00
Senworthy	21695	ďΰ		**	4	60	*		
Scut	21696	80			•	80	4+		
Sebaceous	21697	100		**	4	100	44		70.00
Secunt	21698	120			4	120	44		00.04
Secoda	21699	160		**	**	1(4)	**		100.00
Berkel	21700	200			•	2(1)	-		120.00
			For 1	oo Volt	Circuits				
Broluda	21701	10	16 c. p	. Lamps	Capacity	or 5 A	mper	es	28.00
Second	21702	20	***			10	**		30.00
Secret.	21703	30		4	•	15	**		33.00
Secretary	21704	40		4	44	20	**		
Becreto	21705	50			**	25	*		41.04
2007.000	2::22		34	44		***	4		40.00

Breinda	21701	10 î	6 c. p.	Lamps	Capacity	or 5 A	mper	rs	28.00
Second	21702	20	** *	**		10	**		30.00
Secret.	21703	30	4.	4	*	15	**		33.00
Secretary	21704	40	4	4	44	20	**		37.00
Berrete	21705	50	4		**	25	•		41.00
Bert	21706	60	44	44	44	30	4		45.00
Bottile	21707	80	44	•		40	•		50.00
Section	21708	100	*		••	50	44		55.00
Serter	21709	120	4		44	(H)	**		60.00
Secular	21710	160	4		**	80	**		75.00
Beeute	21711	200	44	44	**	100	**		85.00
Sedan	21712	240	64			(21)	**		95.00
Sedate	21713	320	**			1(4)	**		115.00
Sedutice	21714	400	4			20)	**		135.00
	Eas D					\	/alea		

	For P	rima	ry Circ	uits, ı	,000	or 2,000	Volts.	
		(1	Price inc	ludes T	Taunfo	rner.)		
Sedentary	21715	5	Ampere					 75.0
Brdge	21716	10	14					 80.0
Sediment	21717	15	**					 85.0
Sedition	21718	9)	- 44					 90.0
Reduce	21719	25	**		•			 95.0
Bedulons	21720	30						 100.0
Seed	21721	40						110.0
Seedy	21722	50						118.0
tieck:	21723	(%)						125.0
Seem Seem	21724	80						140.0
Seemly	21725	1(x)						150.0
Nocu	21726	13)	**					 160.0
Seer	21727	160	•					 175.0
Sorthe	21728	200						190.0



. Whitney Ammeters for Continuous Currents.

List No. Code Word. List Price. each\$21.00 2309 No. 31. Scale 0 to Medici nal 10 amp. in the amp. div. " 23.00

0 " . 39. 25 Medicine 2310 + . 43, . 0 . 50 - 24.00 Meditat 2311 . 47. " 0" 100 ~ 28.00 Meditated 2312 .. 0 .. 150 . 1 Medium 2313 ** 51. ~ 30.00

. 55. Medley 2314 " 0" ·· 35.00 . . . 61. . . 65. Medusa 2315 . 0" 400 " 45.00 " 0 " 500 Meek 2316 5 . 66. .. 0 .. 55.00 Meckly 600 5 2317 2318 " 67. " 0" 700 . 7 - 60.00 Meekness 2319 " 68. " 0 " 800 . 10 Moeruchaun 65.00 " 69, . 10 " 0" 1000 Meeting 2320

No. 2309.

Whitney Ammeters for Alternating Currents.

2321 Scale 0 to 5 amperes, from 1 to 5 amperes in 1 Mellow ampere divisions, each..... 2322 Scale 0 to 25 amperes, from 5 to 25 amperes, in Melody Melon 2323 Scale 0 to 50 amperes, from 10 to 50 amperes, in ampere divisions, each 55.00

2324 Scale 0 to 100 amperes, from 10 to 100 amperes, in 1 ampere divisions, each...... Melt 60.00 2325 Scale 0 to 150 amperes, from 15 to 150 amperes, Melted in I ampere divisions, each..... 65.00

Melting 2326 Scale 0 to 200 amperes, from 20 to 200 amperes, 2327 Scale 0 to 300 amperes, from 30 to 300 amperes, in 2 ampere divisions, each. 75.00 2328 Scale 0 to 400 amperes, from 40 to 400 amperes, Membrane

in 4 ampère divisions, each...... 80.00 2329 Scale 0 to 500 amperes, from 50 to 500 amperes, Memento in 5 ampere divisions, each..... 85.00

No. 2230

Carrying Cases for Whitney Instruments.

2330 Wooden Carrying Case, with handle, each..... 1.00



2331 Leather Carrying Case, with handle and shoulder



Post Office Bridge and Rheostat.

Michael 2255 Same, without galvanometer 100.00





Combination Bridge, Rheostat and Galvanometer.

mproved Form with Revolving Calvanometer.

This instrument consists of a sensitive Detector (a) vanometer and an improved form of Wissums Bridge, with Rheostat, all arranged in one run on to form a complete and perfect portable apparain for measuring resistance.

We manufacture two sizes: No. 1 measures from the hundredth of an ohm to 111,000 ohms. It has so exh arm bridge coils of 10 ohms, 100 ohms and 1,000 ohms. The Rheostat consists of three rows of isn coils sol, the first rows being coils of one ohm such, designated "units," the second of ten ohms each, designated "tens," and the third of 100 ohms each, designated "hundreds."

The case is of polished mahogany, measuring 8\(\cup x8\(\cup x5\(\cup \) inches.

Code Word.	List Na.			Dil.
Midship	2260	No. 1	Instrument	75,00
Midst	2261	No. 2		25.00

No. 2 measures from one hundredth of an chill, 110,000 ohms. The construction is the same as Nobut there is an additional row of ten one thousand coils in the Rheostat. The size of the same is \$8.50 and \$10 inches.

The arrangement of colla is such that one play of is used to each row, thus avoiding the multiplicity bad connections on account of ill-fitting plays, amaking the reading as simple as possible. It instance, in balancing the bridge, it is required to the plug of the "hundreds" row into "serve," "tens" row into "five," and of finite row into "five," and of finite row into "five," and of finite row into "five," and of the reads direct forms.



No. 25076.

Wheatstone Bridge.

Consisting of a detector galvanometer so constructed that it may be revolved independently of the case; Wheatstone Bridge and rheostat in case with hard rubber engraved face.

A card of instructions accompanies each instrument,

Code Word.	List No.		List Price.
Somnific	25076	Each	. \$80.00



Adjustable Transformer.

This Transformer is for use where the alternating current alone is available. It will give an alternating current of one to twenty emperes up to 30 voits pressure, and is particularly well adapted for hospital and dental work, where heavy currents are frequently used for conterizing and oper ating lamps.

Prices on application



No. 23084.



No. 3680 with No. 3681.



No. 3446.



The Queen Decade Testing Set

Code Word. List No. Code Word. List No.

Silterbank 23084 T 464, Queen "Decades" Portable Testing

Silverfur 23085 T 465, Queen "Decade" Purtable Testing
Set, without Galvanometer and Rattery 108 8

The above Testing Set is recommended to such electrium as prefer the "Decade" plan of resistance colls.

The Wheatstone Bridge, Rheostat, D'Arsawai Galmometer and Battery are contained in a finely political as hogany box with carrying strap. Outside dimension, II s 64 x 54 ins. Range 901 to 9,999,000 chars.

"Acme" Portable Testing Set.

The component parts are Wheatstone Bridge, Rhound, D'Arsonval Galvanometer, Battery, and Double Components, in a mahogany case, having outside dimension \$1.50 Key, in a inanogany case, naving control of the Article of the Art

the possible range of measurement is from 404 to 11,110,000 ohms.

Measurements can be made under all conditions of pa tical work close to dynamos, in large factories or on ship board.

Frances 3680 T 400, "Acme" Portable Testing Sct...... 108.00
Frances 3681 T 461, Leather Carrying Case, with shoulder Frederick 3682 T 462, Flexible Contact Clutches for heavy

5.80

Detection 3700 T 963, Tripod, with Clamp, to support in

Weston Circuit Tester and Ground Detector.

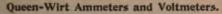
The Weston Ground Detector is an instrument for shape and quickly indicating the existence of grounds, and al-for showing the insulation resistance of the circuits for hour to hour and day to day, and thus indicating as changes that may take place in the insulation resistance of the drawless. the circul

3446 Weston Circuit Tester and Ground Detector Coolly for two-wire circuits, including computing device for quickly determining the insula-tion resistance without necessity of calculation

Weston Portable Galvanometer.

Negative 9061 No. 1, giving 1 millimeter scale deflection with 1 volt through 500,000 shows, resistance 250 ohms.

Neglect 9063 Leather Carrying Case for same, velvet lined, with handle and shoulder strup, lock and





Queen-Wirt Meters are calibrated for either direct or alternating current circuits. When ordering instruments for alternating current, state the product of the number of pole of the generator by the number of revolutions

of pole of the generator by the number of revolutions per minute.

All instruments are Dead-Beat and this enables them to follow continual changes in the current or voltage without constant awinging. The circuit may be rapidly made or broken without driving the pointer violently to one side and probably injuring the instrument or throwing it out of calibration.

The front is of bronze with bright letters and scroll raised on a dead black ground.

Voltmeters for constant potential circuits have their scale divisions wider at the normal running point. Scales on other meters are nearly uniform.

Rang	e.	Ammeters.	Direct.	Alternating.
1 10	30	ampass.		S24.00
	400	superes	22.00	24.00
2 to	15		20.00	24.00
3 to			22.00	24.00
6 to	50			
8 to	75			24.00
10 10	100	** ************************************		24.00
12 to	125	********************************		26.00
15 10	150	* monthetermenterment		26.00
200 to	200			28.00
25 to	250	A		28.00
30 to	300			28.00
40 to	400	**	28.00	30.00
50 to	500		28.00	30.00
60 to	600	*	28.00	30.00
100 to 1	1000	# Manual Control of the Street	28.00	30.00
-			100000	-
7		Voltmeters.		
2 10	15 90	olto	24.00	26.00
3 to :	25	*	24.00	26.00
8 to	75 1	AND DESCRIPTION OF THE PARTY OF	24.00	26.00
80 to 1	30		24.00	26.00
15 to 1	50 1		24.00	26.00
30 to 3	00		06.00	28.00
60 to 6	00 .		20 00	30.00

Portable Instruments.

These instruments are light and small, weighing about three pounds each and measuring 6‡ x 6‡ x 3 linches over all. The cases are of mahogany. The instruments are dead-beat. In ordering Portable Meters for alternate current cir-cuits follow previous instructions given for switchboard meters.

Ammeters.		
2 to 15 amperes	28.00	30.00
10 to 100 #	30.00	32.00
15 to 150 "	32.00	34.00
The state of the s	2000	-
Voltmeters.		
15 to 150 volts	30.00	32.00
30 to 300 "	32.00	34.00
60 to 600 "	35.00	37.00
		35.00
Leather carrying case with shoulder-strap for Portable		
or Ammeter, and a second secon		5.00
The prices on double instruments are governed by the	he combination	Mix.

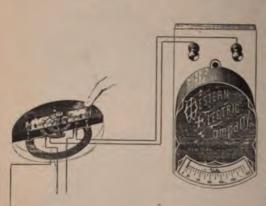
selected and will be furnished on application.



Voltmeter Switches.

Western Electric Switch.

This Switch is used for connecting a voltage across the mains of any number of dynames as co-cults without danger of reversing the polesty through the instrument. It is also provided with a ground test for each side of the different circuis, which measures with the voltmeter the number of wolts lest to ground by simply pressing one of the buttons, from which reading the actual resistance is olims to ground of the circuit may be determined. Switches of this design are made for any number of circuits or dynamos fettered and numbered as desired.



Code Word.	List No.				Lin Pres
Simion	23098	ĸ	Point,	esch.	. SILOS
Similar	23099	6			14.50
Simmer	23100	8	. 4	4	16.65
Simuel	23101	10		-	, IA.00
Stowniac	23102	12	100	80	29.00
Stuonist	23103	14	100	200	24.00
Julia	8720	16	-		30.00

Diagram of Connections for a Western Electric Voltmeter Switch.

The size of the hard rubber base for a 2-point Voltmeter Switch is 2.4 has For a 4 to 14-point the base is round and is 0) in diameter. For a 15 to 21-point switch it is 10) to diameter. A similar instrument is also made for connecting polarity indicaton, rabbattog ammeters or other arriva instruments in are circuits.



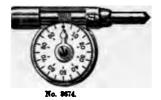
Speed Indicators.

The "Lightning" Speed Indicator.

It registers as high as 1,000, as even by the rest. The body constitutes the handle. Has a relater, tip on the spindle, and the face covered with a watch crystal. Will stand over 15,000 reasiness. per minute.

Citem 3673 Each

Speed Indicators—(Continued).



Universal Speed Indicator.



Heath Speed Indicator.

2051 Heath Self-Timing, Self-Registering Speed Indicator, each 20.00



Standard Portable Tachometer.

The scales on the dial are graduated as follows. 40 to 200, 120 to 600, and 600 to 8,000, which gives a maximum range of 40 to 3,000 turns per minute. Thus it is possible to measure directly both high and low speeds with the same instrument,

Cited

2050 Standard Portable Tachometer, range
40 to 3 000 revolutions, each 90.00

FIXTURES.

Bracket Tubes. List No 21896 21896 21897 No. 21895 No. 21902. No. 21900. Skrew 21898 45 degree rigid, ball joint..... Shread Shrick No. 21943. 21902 Curve Nipple Shrill Skrine No. 21906. No. 21910. Shrink Shrinkinge 21965 Extends 8 inches Shrinker 21906 4 Inches Skrinkingly 21907 6 " Shrite 21908 8 " Shritetely 21909 10 " No. 21915. Shrice Shried Skrier Shriving Skruff. 21914 Extends 3 & Inches No. 21917. Shroffage 21915 90 degree Bracket No. 21916. 21816 Turkey-neck Bracket 21917 Snake Bracket 21918 Swan Bracket 21919 Duck-neck Bracket Shroad Shronding Nos. 21899, 21902 and 21915 are of the same size tubing sother brackets listed. No. 21919.



Fixtures.—(Continued.)

Electric Brackets.

Screw Bracket.

This is a short screw bracket, very strong, makes a convenient bracket for window lighting, border or ceiling work. Extends from wall one and five-eights inches.



Partition Bracket.

For attaching to back of partitions, etc., includes flange. The socket, shade and shade-holder are extra.

21922 Partition Bracket, polished brass, each....... .70

No. 21922.

Bhrove

Shelf Bracket,

With wall plate, has six inch drop to socket nozzle. The socket, shade and shade holder are extra.



Special Shelf Bracket.

For attaching underneath a shelf, furnished with wall plate. Socket, shade and shade holder extra.

21926 21927

21926 21930

y ...



No. 21931.

Electric Wall Brackets.

Fixtures.—(Continued.)

Almond Flexible Bracket. These prices include bracket only

6 inches long

.....

Shruff

Shrubbin

Socket, shade and shade holder are extra.





No. 21933.



No. 21934.

Switchboard Bracket.

Includes canopy and nuts for attaching. The socks shade and shadeholder are extra.

SkrugShrunken



No. 21935.

Hall Bracket.

Including eanopy and crowfoot. Socket, shade a shadeholder are extra.

21935 1 light bracket.....

Wheatstone Bridge.

Combiting of a stetector galvapometer so constructed that it may be evolved independently of the case; Wheatstone Bridge find rhecetat in case with hard rubber engraved face.

A card of instructions accompanies each instrument,



No. 25076.

Adjustable Transformer.

This Transformer is for use where the alternating current alone is available. It will give an alternating current of one to twenty amperes up to 30 volts pressure, and is particularly well adapted for hospital and dental work, where heavy currents are frequently used for canterizing and operating isomps.

Prices on application



Fixtures—(Continued.)

Swing Brackets.

Shades, shade holders and sockets are not included in the price of the brackets. Canopy and crow foot are furnished with each bracket. Brackets are polished brass.



Code Word. List No. Shuffebourd 21941 1 light Electric Swing Bracket \$4.00

Shufferup 21942 1 light single swing, extends 12 inches... 1.29 21943 1 light double swing, extends 24 inches. 1.70



21944 1 light single swing, extends 12 inches... 1.20 21945 I light double swing, extends 24 inches. 240



21946 1 light Electric single swing bracket, extends 12 iuches...... 1.50 21947 1 light Electric double swing bracket, et-Shen

No. 21948.

Two-Light Electric Bracket.

tends 24 inches 3.00

Two arms, single swing, spread 24 inches.

21948 2 light Electric bracket...... 5.56



Fixtures—(Continued.)

Electric Brackets.

Sockets, shades and shadeholders are extra-

Code Word. List No. List Price. Each.

Shark 21936 1 light Bracket with wall plate... \$1.80

Extends 10 inches.



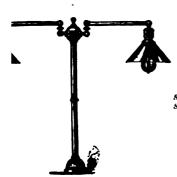
Two-Light Wall Brackets.

Including canopy and crowfoot,

Shudder 21937 2-light bracket, polished brass..... 3.50



Givids 21938 2-light bracket, polished brass..... 2.50



Swing Standards.

Standards are furnished without shade, shade holder or socket.

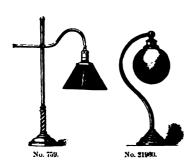
 Shafe
 21939
 1-light, single swing standard
 3.25

 Shafe
 21940
 2 light, """
 4.75

The arms extend 12 inches.

This fixture is well adapted for banks and counting houses.

The Standards will be furnished wired for 25 cents extra for each arm,



Desk Portables.

Code Word. List No.

Panny 758 Extension Purtable.......

Height, 34 inches. Extension 12 inches.

The arm can be moved up and down, is and out, and from side to side.



Plain Standard Portable.

Flexible Portable.



Adjustable Portable and Brack

Is furnished with a key switch at the base, as has an adjustable attachment at the top su that to socket may be moved from side to side.









Combined Portable and Bracket.

...This is an ornamental and convenient deak lamp. It is furnished complete with six feet of cotton covered hamp cord, a special Bryant attachment plug, a socket for a T.-H. or Westinghouse base lamp, and a paper or celluloid shade. The Portable is of polished brass and, including the lamp, stands about 12 inches high.

When used as a bracket it extends about 8 inches.

Code Word.	List No.							Li	Prine.
Kqualness	2371	Polished Bra	185, CO	uplet	e.:				\$5.00
Equation	2372	Old Copper,		-44					6.00
Equinus	2373	Oxldized Sil	ver			 			7.00
Equity	2374	Shade only,	Green.						1.00
Equipment	2375	44	Red .						1.00
Equironal	2376	60	Blue-						1.00
Kendiente.	2377	**	White			 	٠.		1.00
Erudicated	2378	**	Yellov						1.00
Erudicating	2379	4	Pink.			 		 	1.00

The Kinsman Desk Light.

This Desk Light is clamped on the desk as shown, without marring or interfering with the desk in any way; has an adjustable arm by which the cylinder can be pulled back or drawn forward as desired. The inner glass cylinder is so arranged that it will give a bright light, or by a slight touch it can be modified to

	2200	Prote of the I shated	6 00
Ermud	2380	Each, nickel plated	0.00
Side-and	22044	Each; dark Green, enamel	3.7

Kinsman Portable.

Side-lable	22045 22046	Kimman	No. 1,		Green,	8.00
Side-taking	22047			Portable		7.00
specii	fied.	ass can be			sickel if	

Ornamental Electric Portables.

One light, finished in rich gilt or polished brass.

Shi	ttlerace 2	1958 Part	table, v	vithout	shade	 	6.70
Shi	2	1959	44 W	ith opa	I shade .	 1	7.00
-				-			

No. 21965.

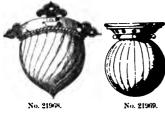
Ornamental Ceiling Fixtures.

Husks.

21964 1 light, polished brass or rich gilt...... 21965 1 "



814 Siberian



Siberite Sibilance

Ceiling Globes and Balls.

21968 1 light, Black Iron, Flint Opalescent Globe, 17.
21969 1 " Polished brass," " Ball, \$

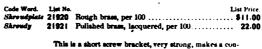


Stitutation 21970 1 light, Polished Brass, Flint Opalescent Ball, II
Situtation 21971 1 " " " Invide Roughed Ball, II



Electric Brackets.

Screw Bracket.



This is a short acrew bracket, very strong, makes a convenient bracket for window lighting, border or ceiling work. Extends from wall one and five-eights inches.



Partition Bracket.

	attaching to back of partitions, etc., includes. The socket, shade and shade-holder are extra.	
21922	Partition Bracket, polished brass, each	.70

No. 21522.

Shelf Bracket,

With wall plate, has six inch drop to worket words.

The socket, shade and shade holder are extra.

Shreestide 21923 Shelf Bracket, polished brane, our b 15



Special Shell Bracket.

For attaching undersouth a marif, furnished with mall plate: bucket, shade and alunca insides exten

Bronding 21284 Special Maril Septime, policitud from carl 4



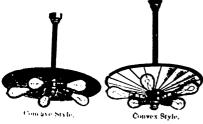
Fixtures—(Continued.)

W. E. Clusters.

These clusters, owing to their construction, are a hardy and next device. Fig. 2 is a detachable base, as that the cluster is open at both ends. The piece shown at the bit of the cluster is made for a shade holder, and will hold the cluster is made for a shade holder, and will hold the above.

the shade firmly and rigidly to its proper place.

These clusters are furnished in polished base. These clusters are furnished in polished brass. As additional charge of 20 cents will be made for Nickel of Baure Bart finish. The following prices are for the Cluster Balls only. Shades, pendants, canopies and crowfoots extra.



Concave Style.

	crow foots c	xtra.					
			•	Comc	ave S		
	Code Wora.	List No.				1	EAS
	Sickishly	22001	3	light	Clust	cr	\$1.12
	Mickinkurus	22002	4	•	*		
	Nickle	22063	S	"	•		1.24
,	Sicklet	22004	6	••	•		1.28
	Sickleman	22005	8	•4			144
	Sickler	22006	10	4	-		1.86
	Sicklens	22007	12	-	-		2 70
			•	Comv	ex St	yle.	
	Sicklewort	22008	3 1	light	Cluste	e r	1.35
	Sickline	22009	4	**	*		. 14
	Sichlinens	22010	S	4.			1.45
	Sicklist	22011	6	•	44		. 150
	Sickly	22012	8	**	**		, 1.62



Dale Detachable Ceiling Cluster with Switch.

Cluster Buly is detachable, so that the ponciain reflector may be put up or removed without interfered with the wiring or taking down the fixture.

with the wring or taking town the mature.
A switch is placed in the hottom of the cluster lish is turn off and on the lights, thus avoiding running wires to out the ceiling outlet to the side wall.
Worst complete, excepting shade and sockets.



A Section of end on lights.	E Holder for Reflector.
R Ibala.	F Brass Stem.
1 1 2 1 1 1 E	G. Canopy covering Created
Of the control for Plug Control	••

		2.1.1		
	1997	; -		
	998	• .		
	1999			
٠ :	.7000			• • • • • • • • • • • • • • • • • • •



Electric Pendants.

Plain straight. Pendants made of polished brass, with crowfoot and canopy, as per the following list: Sockets, shades and shade holder extra. K. W. bracket cut out, which can be used instead of canopy and crowfoot will be furnished if specified.

																				E	acl	n
987	Pendant	116	oot long	٠																. 1	3	.60
988	44	2			٠.																	.90
989	4	3	4																			.20
990	4	4	44						٠.												ı	.50
991	4	õ	44		٠.																ı	.80
992	44	6	44																		2	. 10
	988 989 990 991 992	988 " 989 " 990 " 991 "	988 " 2 989 " 3 990 " 4 991 " 5	988 " 2 " 989 " 3 " 990 " 4 " 991 " 5 "	988 " 2 " 989 " 3 " 990 " 4 " 991 " 5 "	988 " 2 " \ 989 " 3 " \ 990 " 4 " \ 991 " 5 " \	988 " 2 " ` 989 " 3 " 990 " 4 " 991 " 5 "	988 " 2 " ` 989 " 3 " 990 " 4 " 991 " 5 "	988 " 2 " 989 " 3 " 990 " 4 " 991 " 5 "	988 " 2 " 989 " 3 " 990 " 4 " 991 " 5 "	988 " 2 " `	988 " 2 "	988 " 2 " `	988 " 2 "	988 " 2 " `	988 " 2 "	988	988 " 2 " `	988 " 2 "	988 " 2 " `	988 " 2 "	988 " 2 "

Ornamental Pendants.

Finished in black fron, and includes canopy, crow-foot and flint opalescent ball. An extra charge is made for the socket.

Sickberth	21993	Pendar	nt Z	feet long	K	30.00
Sickbrained	21994	4	3	41		31.00
Sicken	21995	4	4	"		32.00



Hall Fixtures, Plain.

Polished Brass. Crowfoot and canopy furnished with fixture.

Shade, shadeholder and socket extra.

Code Word	List No.		Each.
Sickness	22013	2 light	
Sickroom	22014	3 "	7.25
Sicle	22015	4 "	9.00

Bed Room Fixtures, Ornamental.



Polished brass, rich gilt, including canopy and crow

foot.
Sockets, shades and shadeholders extra.



271,

WESTERN !!.







No. Upon









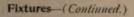












Electroliers—(Continued.)

These Electrollers are of polished brass or rich gift, bandsome in design and of the fluest work-manship.

They are furnished without sockets or shades.

	E	ectro	oller	. wi	th H	usk	50					1	
Code Word.	List No.								Prior	List.			
Sideposts	22031	2 114	tit							1.50	04	100	
Bider	22032	A III	•						4	9.50	3	5	
Bigleral	22033	6.							- 6	7.50	Lucki	AA	
	1						3	3		The state of the s	N. A.	原作さ	

No. 22036.

Hiderated	22034	2	light							18.00
Sideration	22035	3	- 44							20.00
Siderate	22036									26.00
Siderograph	22037	6	**							34.00
8 iderugraph,	#22038	-9	Bola							17.30
Sideroman	22039	2	44							19.80

Electrollers, wihout Husks.



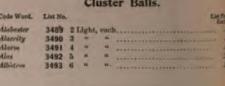
No. 22043.

ed to furnish other designs in Fistures than those shown in this Catalogue,



Clusters.

Cluster Balls.





		-							
Erecting	6786	Standard	Box	Chaster.	Brass	. 2	light.	meh	10
Ermine	6787	44	-44	**		3	*	-	3.15
Erode	6788	**	-	1.441		-			3.25
Erested.	6789	-84	144	-	14	15		4	1.4
Erodiug	6790	44	-10	1.00	-	6		2	1.50
Eroxion.	6791	**	-	40	4	8	14	50	121

No. 6790,



deern.	23088	2	Light,	each	
deery 1	23089	3	- 16	M	***************************************
lma	23090	4	- 66	14	
magre	23091	5	M.	- 00	
more	23092	0	- 11	16	
diare	23093	8	-		Silver Contraction (Laborator



Separable Ball Cluster.

Diameter, 3 inches.

Landlord	613	2	Light, es	ich					
Landmin	614	3	16	w		100			
Landmark	615	м	H. 1	46					
Landrott	616	5	-	a .	-				
Landscope	617	6	4 0	10					
Landulida	618	7	H 3						
Landsman	619	8		×					
Landspring	620	9							
Landward	The same of	10	- NC 10						
Lone	622	ü	16 0						
Enguiye	623	-							
Laugald	624								
Lunguidly	625		4 4	_					



Cluster Fixture Complete.

Prices given are for stem up to 12 inches in length. Prices for extra lengthening, 40 cents per fool list.

Code Word	List No.					Price Li
Lagger	600	2	Light.	ch		
Langing	601	3	- 11	·		2.1
inte	602	4	44		INCRESE OF TAXABLE	2.1
selly.	603	5	- 10			
wind.	604	6.	100			
ambkin.	605	7	- 16			
amblike	606	8	44.			100
amont	607	9				
amentable	608	10	+0		I DEDATE DERASTACIO	
amentahty	609	11	-			200
sment stim	610 .		- 16			
amented		14	**			
amenting.	612	16	-11			

Bottom ornament on cluster is detachable. We furnish with each fixture a brass nipple to take the place of the ornament, so that another light may be added on the bottom.

Bracket Cut-Outs.

Both the K. W. and B. E. Rosettes are made in the form of Bracket Cut-Outs for fixture work, and are adapted for use with any standard bracket made from # inch brass tubing. Both styles of caps are interchangeable, and will fit apy of their respective bases.

The cut shows a very neat Fixture, made of No. 873 Bracket Cut-Out, No. 9392 Canopy and No. 21910 tube. It can also be used without the Canopy.

K. W. Bracket Cut-Out.
Palented July 16, 1800, and July 1, 1800.
Type "A," with Brass Face Plates.

Code Word.	List No.	B. E. List No.		List Price.
Erentie Accretion	873 25491 25492		For Cleat Work Square Base for Moulding W	32
	Туре	"B,"	with Brass Thimble.	
Vagrancy Accrete Accretice	23094 25493 25494	1178	For Cleat Work Square Base for Moulding W	24

R F Bracket Cut-Outs

D, L, L	Macket Cut-Outs.
Patented September	r 18, 1887; April 30, 1889, and April 25, 1885.
Accrimation 25495 1130	0 For Cleat Work:
	1 For Concealed Work
Acceimchmen 25497 113	2 Square Base for Moulding Work .20

Wall Plates or Electric Bracket Backs.

Also made with Male Thread for Direct Attachment to Socket.

Evasoment	2382	2	inch,	Female	Thread,	each	 	.65
Erraing	2383	2	-	Male		86		65
Evasure	2384	120	H.	Female	44	41		.75
Breek	2385	2	14	Male	1.41	-		.75
Eruse	2380	1	×	Female				.50
Ernsed	2381	3	H	Male	14.			.50

Turned Brass Fittings.

Polished and Lacquered.

No. 23144.	Sing'y Shagung Shagung Shagung Shagung Shagung	23146	x x	12.50 12.50 5.00 6.50
0	Senda	23144		
No. 23140.	Soose Sooger Soogle Sooglee	23140 23141 23142	1	6.00 (0.00 10.00 12.50
No. 23147.	Sinony Sinfal Song	23137 23138 23139	1 *	
No. 23136.	Bineways	23136	Secret Nozzie.	15-00
No. 23135.	Code Word. Sinewal	List No. 23135	Nippie. (Brase Tubing Size.)	







Subt Cimopy

No. 23005.



No. 9388.



So. 2385.

Kerosene Lamp Attachment.

Code Ward.	List No.		List Price.
Ererted		Plain, each	
Eminonee	8883	Insulated, each	70

Canopies.

We carry in stock a large variety of Fixture Canopies, finished in polished brass. Other finishes will be furnished when specified.

Split Canopies.

Canopies of any style illustrated in this catalogue will be furnished split, at double the printed list prices, subject to regular discounts.

Extension Ring.

For Canopies 4 inches in diameter.

imblat imin imila	23095 23096 23097	1 inch	in	 	 44,	 214	12111	.30 .35 .40
	Extension r	ings of						

Canopies.

								А.
Nounts	9388	8	Inch,	Ring	and Set Serow,	encl	Limit	
Nerva	9293	2	- 11	-		**		,
Nervelesa	9389	-	H	-95	44	**	room.	
Neering	9391	1	**			-	111101	
Nerrous	9386	1	inch.	Ring	and Set Serew,	each		
Nervously	9107	п	14	H.	**	100		
Nest.	9328	i	*	M	1.6	10		
Nestla	9387	6	14	14:		-94		

Polished and Lacquered, 50 per cent. extra.



Canopies-(Continued).

Netting	Lim No. 9392	,	Inch,	Ring	and	Set Serew	, eac	h.,,	 NA.31
Nettle	9393	ŧ	- 11	40		16		-	.24
Neural	9394	.4	40	**	2	-19	-	***	
Neuralgia	9395	1	**	**		11.	*	****	-26



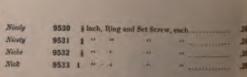
Neuter	9290	ŧ	inch,	Ring	and Set Screw,	each		23
Neutral			20	**	**		**************	
Neutralize	9683	ž	44	**		-		
Newt	9383 1	3	**	111		4		2



Nebb

No. 9568.

0	9568	1	Inch,	Ring and	Set Berew.	each	21
la	9569		-4	-		ж	.24
lor	9570	1	**		***	*	.25
	9571	1	w	**	341	*	.35





Polished and Lacquered, 50s extra-



Canopies—(Continued)

Code Word.	List No.						Li	st Price.
Nickel	9537	8	inch.	Ring	and Set Screw,	each		\$0.28
Nieknacks	9538	12	-	**		10	2131 21210	.28
Nickname	9539	3			*	**		.30
Niciale	9540	1	**	**		**		.30







23	Ca	ino	pies	-(Cont.	inucd)		
Lin St.						14	K 7196
9557	и	inch,	Ring	and Set Sc	row, and		\$0.62
9558		-	44	11.	**		AZ
9559	i	7	-	-	-		. 24
9560	1	4	**	-			A
	9557 9558 9559	9557 (9558 (9559 i	9557 inch. 9558 - 9559 -	9557 inch., Ring 9558	9557 inch., Ring and Set Sc 9558 "	9557 inch., Ring and Set Screw, end 9558 " " " " "	9557 Inch., Ring and Set Screw, each.





Nightshade 9562 | Inch, Ring and Set Screw, each

Polished, and Lacquered, 305 extra.

Sunbeam Incandescent Lamps.



We are the exclusive agents for the Sunbeam Incan-descent Lamp. This lamp was selected by us after very careful investigation on account of its high quality. The Sunbeam Lamp was first made in 1889, and during that whole period has had a most excellent reputation. It is a low-priced lamp if one is not blind to the question of quality. No better lamp can be purchased at the same price.

The frosted lamps have a si nooth, satin finish.

The superficially colored (dipped) lamps can hardly be distinguished from the natural colored glass, and for most purposes are quite equal to them.

Particular attention is called to the 2 and 4 C. P. lamps for sign and decorative work, and which are also useful in residence lighting on account of the small amount of energy consumed. These lamps can be connected in multiple on the regular lighting circuits.

Special prices will be quoted according to quantity.

Pear Shape, Hair Pin Filament.

Furnished regularly for voltages from 45 to 90. Will be furnished for any voltage from 90 to 130 when specifled.



Siding Sidle Siege

Code Word. List No. Sidetica Sidennik Sideenys Sidewind Sidewise Sienite Sienitic Furnished in clear glass, frosted, opal, all natural col

ored glass and superficially colored. Note.-Specify the base and voltage.



d Filament

Pear Shape, Coiled Filament.

Furnished for any voltage from 90 to 120. 22058 8 c. p., 32 watta.

22059 10 " 37 " (long life)

22061 16 " 56 " (long life)

22062 16 " 62 " (very long life)

22063 20 " 62 " (very long life)

22064 25 " 75 "

22065 32 " 92 " Sienna Siennese Sierra Siesta Sieur Sicre Sift Sifter

Furnished in clear glass, frosted, opal, all natural colored glass and superficially colored.

NOTE.-Specify the base and voltage.



High Voltage Lamp



Electric Street Railway Lamp.



Decorative Lamp.

Incandescent Lamps--(Continued.)

High Voltage Lamp.

Voltage 200 to 250.

Code Word.

22066 16 c. p., 56 watts.

Specify base and voltage.

Electric Street Railway Lamp.

Has a tough filament and will stand a variation in voltage from 105 to 120. Will have a long life and excellent maintenance of candle power throughout its entire life. Electric cars will be found better lighted with this lamp than where others are used.

Signattian 22067 16 c. p Furnished in clear glass, frosted, opal, all natural col ored glass and superficially colored.

Specify base and voltage.

Decorative Lamp, Coiled Filament.

This lamp is offered for use in those places where a strong light is not required. The principal use for this lamp is in sign and decorative lighting; also in residence lighting.

The bases fit the standard sockets and the lamps are to be connected in multiple. The saving in energy over the lamp ordinarily used in sign work will amount to several times the cost of the lamp. For example: the saving in energy during its life of a 4 c.p. lamp over a 16 c.p. lamp will amount to \$2.00 or more.

Sigh Sight Sigher Sighingly

Furnished in clear glass, frosted and superficially colored. Specify base and voltage.



ch Etched Lamp.



Engraved Lamp.



Incandescent Lamps—(Continued.)

Fancy Lamps, French Etched.

For residences, clubs, hotels and such other places where handsome fixtures are used. Many of the shades now used with locandescent lamps will exclude from 30 to 50 per cent. of the light. These etched globes will pass all but 5 per cent of the light. The French etched lamp is artistic, surpassing in beauty anything heretofore produced.

We have ten different designs.

Add to the list price of regular lamps, 30 cents each.

Fancy Lamps, Engraved.

For residences, show windows, and other places where t is desired to have something more fancy than the plain lamp, our engraved lamps find favor. We have ten different designs.

Add to the list price of regular lamps 15 cents each.

It is important that the style of base should be specified and the voltage given.

Candle Lamps.

Furnished in any voltage from 48 to 120. Furnished in clear glass, frosted, opal and superficially colored.

Code Word.	List No.	
Sight Sighted	22072 22073	10 c. p., 3

															1	L		P	ric h	e
. p.,	37	watte	١.	 								 							.(iO
	56	4		 							 								.(Ю

Specify the base and voltage.

Incandescent Lamps—(Continued.)

Porcelain Base for T. H. Lamps-

One of the recent developments in Incandescent Lamin's is a base made entirely from porcelain, as shown by the illustration. It is artistic in fluish, reasonable in factor, and of high insulation.

On fine fixtures it adds greatly to the general end and always presents a nest appearance, as it cast cleaned whenever the lamp itself is polished.

An advantage claimed for a base of this descriptions that no metal extends beyond the edge of the sucket, consequently there is no danger of accidental confirmation with the lamp base. This is of importance where large are used in damp places as moisture may make a contact between the outer shell of the socket and the lamp base.

thus causing a alight ground on the line.

This purcelain base is specially adapted for marin work, breweries, stock yards, refrigerators, basemen mines, or any other place where considerable moistures is a superstance of an interiors nature.

mines, or any other place where considerable moisturexists or gases and acid fumes of an injurious naturprevail. Moisture and gas attack metal and cause it to corrode, and in consequence in time to deteriorate. & hard, vitreous glazed parcelain, such as these bases are

hard, vitreous glazed parcelain, such as these bases are made of, is much less liable to the action of the atmosphere and noxious gases and does not cause any leak of current due to the accumulation of moisture.

The high degree of insulation makes it very desirable for out of door work, for 220 volt systems and street railway work.

These Bases are made for T. H. Base Lamps only.
Our standard lamps are all supplied with regular
metal bases, as illustrated on other pages of this cata-

The Porcelain Base is furnished only when specifical in the order.

We do not sell the Bases separately but only on the lamp.

Prices quoted upon application for lamps of standard sizes with porcelain bases.







Split Canopy



No. 21005.



No. 9388.



No. 8086.

Kerosene Lamp Attachment.

Code Word.	List No.		List Price.
Erected	8882	Plain, each	\$0.70
Eminence	8883	Insulated, each	70

Canopies.

We carry in stock a large variety of Fixinre Canopies, fluished in polished brass. Other finishes will be furnished when specified.

Split Canopies.

Canopies of any style illustrated in this catalogue will be furnished split, at double the printed list prices, subject to regular discounts.

Extension Ring.

For Canopies 4 inches in diameter.

Simblat	23095 1	inch deep		,30
Simia	23096 1	-10	ALTERNATION AND DESCRIPTION OF THE PARTY OF	-35
Simile	23097 2	195	*******	-40
	Extension ring	s of great	er depth or for campies larger	

In diameter made to order.

Canopies.

Neurola	9388	4	inch,	Ring at	nd Set Screw,	ench		3
Nervo	9293	-	-	-	46	W.		٠,
Nerreless	9389	T i	14	16	AF	AL.		٠,
Secrino	9391	1	- 8			44		7
Netrons	9386	4	Inch,	Ring at	nd Set Screw,	each		,
Nerconsty	9107		-14	14	-	-48	******	ı,
Nest	9328	1				18		

Polished and Lacquered, 50 per cent. extra.

Miniature Incandescent Lamps—(Conlinued.)



Battery L	amps.
-----------	-------

Code Word.	List No					Lim Pri Exci
Sightful	22074	Ж	c. p	., with platinum	loop termi	nals § 8
Sighfullness	22075	1	44	•	-	
Sightless	22076	2	4	•	-	
Sightlesely	22077	3	4		•	
Sightly	22078	4	4	44		
Sighteering	22079	6	*	4		
Sightseer	22080	!4	4	without platium	m loop terr	ninals
Sightshop	22081	í	*			
Sighteman	22082	2	4		•	
Sigel	22083	16	*	pear lamp		
Siggillatice	22084	í	4			
Sigla	22085	2	*			
Sigma	22086	16	*	grain lamp		
Sigmoid	22087	í	4			
Sigmoidal	22088	14	4	pearl lamp		

Note. -All our large sizes of Lamps of every kind, when not mounted on screw bases, are provided with platinum loop terminals, to which copper wires are fused on. This effectively prevents breaking off of wires.

Special Series Lamps.



Mounted on either Edison, T.-H., or Sawyer-Man Standard Bass. 6 to 8 c. p. 20 to 30 volts. ___ __

Siymoidally Siymoiding		Accumulator Lamp, mounted	1.00 1.00
Spe	cify can	dle power when ordering Nos. 22089 and 23090	
	Mounte	d on Candelabara and Miniature Bases.	
		1/2 to 8 c. p.	
Sign	22091	1/2 to 4 c. p., 2 to 20 volts	80
Signal	22092	4 c. p, 20 volts	. 80
Signature	22093		. 80
Signalist	22094	6 " 30 "	.80
Signality	22095		30
Signally	22096	9 " 60 "	30
Spa	cify can	the power and voltage when ordering No. 23091.	
		With Colled Carbons.	
Signalment	22097	4 to 8 c. p., 15 to 60 volts	.85
Ottom address	22000	Ministration and March 18 April 19	

Signation Signator y	22098	Stereopticon Lamp, 20 volts, 20 c. p.	1
Spc	cify cand	le power and voltage when ordering Nos. 23097, 23098 and 23099.	

Mounting on Screw Bases, 10 cents extra.

.70 .70 .70



Miniature Incandescent Lamps—(Continued.)

Candle Lamps.

For Decorative Lighting.

Code Word. List No. List Price. Fach. Signifer 23008 Significance 28009 Significancy 23010 y 23010 6 4 50 4 23011 8 4 60 4 Significant 14 Any other voltage furnished to suit réquirements, Mounting on Screw Bases, 10 cents extra,

Candle Flame Lamps.



.70 .70 Ellipse Lamps.

Any other voltage furnished to meet requirements.

Mounting on Screw Bases 10 cents extra.

Bend Flame Lamps. 23024 2 c. p., 10 volts, without screw bas



Signor	23025			10			44	•••
Signpost						-	-	
Bike	23026	4	**	30	4	••	**	
Biker	23027	5	, "	30	и	**	•	
Sikerness	23028	t		50	**	"	**	
8ikha	23029	8		(4)	44	**	**	

23030 2 c. p., 10 volte, without screw base 23031 3 " 10 " " " " " " 23032 4 " 21 " " " " " " 4 23033 5 " 30 " " " 4 " " " " " Sile Bilence Silene .80 Silent80 23034 6 " 50 .4 Hilently Other voltages furnished when specified,

Mounting on Screw Bases, as shown in cut, 10 cents extra.

Silentnew Silonia

Hilenian Siler

Silhouette Silica

Silicate Silicated





No. 23037.

Miniature Incandescent Lamps—(Continue

Prism Lamps.

Style No. 23037 is made in sizes ranging from 2 to \$ c. p., and 20 to 60 volts.

When ordering specify candle power and voltage.

Code Word. List No.

Style No. 23038 is broader and shorter than Style No. 23037. Can be made from ½ to 8 c. p., 2 to 60 volt Coiled carbon taking the place of straight one for the

higher pressures.

Specify caudle power and voltage when ordering.







No. 23038.

Lance Tip Lamps.

Voltage same as that of Battery Lamps. Made in sizes from ½ to 8 candle power. Specify candle power and voltage when ordering.







Corrugated Cylinder Lamps.

From 1/2 to 8 candle power. 2 to 40 volts. Specify candle power and voltage when ordering.

Corrugated Cone Lamps.

From 1/2 to 8 candle power. The voltage the same as any other series or battery lamps as required.

Specify candle power and voltage when ordering.

Bilice 23044 Mounted on screw base Siliceous Silicious

List Price, Each.

Miniature Incandescent Lamps—(Continued.)



Corrugated Cone Lamps-(Continued.)

From ½ to 8 candle power. Voltage the same as any other series or battery lamps as required. Specify candle power and voltage when ordering.

Code Word List No.

Biliois 23047

Bilicity 23048

Bilicits 23049

Bilicle

Bilique

23047 Plain platinum wire terminal \$.30
23048 Loop terminals .00
23049 With hooked stem .1.00



Corrugated Sphere Lamps.

½ to 8 candle power. 2 to 40 volts. Specify candle power and voltage when ordering.



Tricolor Lamps.

Come.

Globes striped red, blue and white (natural). % to 8 candle power. Voltage up to 60 volts. Specify candle power and voltage when ordering.



 23052
 Mounted
 1.19

 23053
 Not mounted
 1.90

 23054
 With stems
 1.10

 The stripes are made in two styles as shown in the

The stripes are made in two styles as shown in the cuts, style A and style B.

Sphere

 $\mbox{\%}$ to 8 candle power. Voltage up to 20 volta. Specify candle power and voltage when ordering.

Silique Silk No. 23057. Silkention



No. 23067

Miniature Incandescent Lamps—(Conlinued.)

Lens Lamps.

The lenses are fused on the globe during the process of blowing. They are able to quadruple the amoust of light emitted by a lamp through concentration iste a beam. They can be used in microscopes, models, as for stage effects.

1/4 to 6 candle power. 2 to 20 volts. No higher voltage is possible on account of the small size of the globs.

Code Word.	List No.											14	-	
Billion	23058	Single	Lens	Lame	.		 			 		 	18	
Rillyrass	23059			•										
Hilkiness	23060	Three		-			 			 		 	2.00	
Silkman	23061	Single	-	•		•••	 	٠.		 			1.00	
	Samo	Lamps	with	colled	CEL	boı	25	c	rest	 :xt	n.			

Mounting on Screw Bases or Glass Stems 10 cents etts.

Zone Lamps.

These Lamps are especially suitable for such kinds of illumination where movable lights of constantly varying colors are required.

The Bulbs of these Lamps are made of combination of

two or three of the following kinds of glass: Milk, Blue, Crystal, Amt=r

Ruby	Green, Violet, All colors are natural.	
23062 23063	Lamps of two kinds of glass	

These Lamps can be furnished mounted for stage dress for 40 cents extra.

Lantern Lamps.

__ . _ .

Nilkshag

1, to 5 candle power. 2 to 60 volts. Specify candle power and voltage when ordering.

These Lamps are suitable for Yacht, Carriage, Bicycle, Mmers' and Ductors, Head and other Lanterns.

Silkered Silkeerm Silky



Miniature Incandescent Lamps-(Continued)

Lantern Lamps-Continued.

1/2 to 8 candle power, 2 to 60 volts. Specify voltage and candle power.

Code Word.	Ljst No.								P	rice List Each.	ł.
Bill	23068	Flat	Lam	p	 				<i></i>	. \$.9	0
8iNily	23069	*	*		 ••••		• • •			. 1.5	0
_											



From 2 to 20 volts only. 1/2 to 8 candle power.

Specify voltage and candle when ordering.

 23070
 Lantern Lamp
 .75

 23071
 Condenser Lamp
 .85
 Sillock Sillon

No. 23071 Condenser Lamp is same pattern as No. 23070, but larger in size with a U shaped filament.





Billy Sillyhon

Colored Lamps.

All lamps here illustrated can be furnished in the following natural colors:

- 1. Milk-white; Opaque, superior to 5. Violet,
- frosted glass.

 2. Ruby; Chloride of gold glass. 6. Amber.
- 7. Greenish-Yellow; Uranium, 3. Blue. 4. Green. phosphorescing glass.

For colors, 20 cents additional for each lamp. Frosting, 10 cents additional per lamp.



Receptacles for Candelabra Lamps.

Standard Round Candelabra Receptacle.

Cude Word.	Last Re	
Lancobera	13580	



No. 13381

Standard	Flat-Base	Candolabra	Receptacle.



No. 13582

Candelabra Shade-Holder Receptacle.

Langford 13582



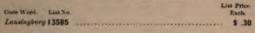
Star Shades with Colored Edging.

Lansing 13583



Receptacles for Miniature Lamps.

Round Miniature Lamp Receptacle.





Square Miniature Lamp Receptacle.

ma	13586	 	 	.50



Miniature Shade-Holder Receptacle.

Laper	13587	*********	PROFILE !	12000	



Shades for Miniature Lamps.

Miniature Incandescent Lamps—(Continued.)



Battery Lamps.

			-			
Code Word	List No.					List Price
Sightful	22074	36	c.p	, with platinum	loop termis	sals \$ 0.75
Sighfullures	22075	1				
Sightless	22076	2	46	44	**	
Sightlendy	22077	3	-	4		
Sightly	22078	4	-	4		75
Bightweeing	22079	6	-	- 4		
Sightweer	22080	14	-	without platies	m loop tern	inals70
Sightshop	22081	1	•	4		.70
Sightsman	22082	2	301		-	
Sigel	22083	36	86	pear-lamp		
Siggillative	22084	1	-60	*	**********	
Sigla	22085	2	-			
Sigma	22005	×	•	grain lamp		1 .5
Sigmoid	22067	ï	-		• • • • • • • • • • • • • • • • • • •	
Sigmoidal	22000	×	•	pearl lamp	•••••	1.85

Mounting on Screw Bases, 10 cents extra.

Norm.—All our large sizes of Lamps of every kind, when not mounted on acrew bases, are provided with platinum loop terminals, to which copper wires are fused on. This effectively prevents breaking off of wires.



oa elthe	er Edi											
		908 ,	T	H.,	, or	Se	wy	or-M	ae S	teed	ard B	0005.
	•	to 8	c. p	. 1	3 0 (o 3	0 70	its.				-
22090	8pbe	rical	Lar	вp		٠		••••	• • • • •			. 1.00
cify can	dle po	wer	whe	B 0	rde	riz	g N	OS. 23	089 4	s ba	2000.	
Mounte	d on	Cam	dela	ber	na 1	and	M	miate	ire B	hoe	١.	
			%	to	8 c.	. p.						
2209 i	1/2 to	4 c.	p., 2	to	20	volt	ts					86
22093	4 "	30	64									14. 24. 34. 38.
22094	6 "	30	•									.80
22095	8 4	40	4						· • • •			81
22096	9 4	60	"									86
rify can	die po	wer	bas	vol	tag	•	hen	orde	ring	Na. 1	HOOL.	
		Witi	. C	dle	d (Cer	bom	s.				
22097	4 to	8 c. p	., 16	to	60	vol	u					.01
22098	Kine	tosco	pe 2	10 v	rolt	lar	hp .					140
22099	Stere	nptic	on l	an	ap,	30	volt i	L 20 c	c. p			1.2
ify cand	le pot	ver a	r ba	olt	450	w	-	order	ing ?	los. 1	H)17,	
	22090 elfy can Mounte 22091 22092 22093 22094 22095 22096 elfy can 22097 22098 22099	22090 Sphe ify candle po Mounted on 22091 ½ to 22092 4 c.; 22094 6 ** 22095 8 ** 22096 9 ** ify candle po 22097 4 to 22098 Kine 22099 Stere	22090 Spherical ify candle power Mounted on Cam 22091 ½ to 4 c. 22092 4 c. p., 20 22094 6 ~ 30 22094 6 ~ 30 22095 8 ~ 40 22096 9 ~ 60 ify candle power Witt 22097 4 to 8 c. p. 22098 Kinetooptie fy candle power a	22090 Spherical Lar ify candle power whe Mounted on Candela % 22091 % to 4 c. p., 2 22092 4 c. p., 20 volt 22093 4 * 30 * 22094 6 * 30 * 22095 8 * 40 * 22095 8 * 40 * 2196 9 * 60 * ify candle power and With Co 22097 4 to 8 c. p., 18 22098 Kinetoscope 1 22099 Stereopticon ify candle power and v	22090 Spherical Lamp lify candle power when o Mounted on Candelshan ½ to 22091 ½ to 4 c. p., 2 to 22092 4 c. p., 20 voita 22094 6 " 30 " 22095 8 " 40 " 22096 9 " 60 " ify candle power and volt 22097 4 to 8 c. p., 15 to 22098 Kinetocope 20 v 22099 Stereopticon Las fy candle power and volt	22090 Spherical Lamp ify candle power when order Mounted on Candelahara (10 8 c. 22091 1/2 to 4 c. p., 2 to 30 22092 4 c. p., 20 volts 22093 4 20 0 22094 6 30 0 22095 8 4 40 0 22096 9 60 0 ify candle power and voltage With Collect 22097 4 to 8 c. p., 15 to 60 22098 Kinetoscope 30 volts 22099 Stereopticon Lamp, fy candle power and voltage	22090 Spherical Lamp Ify candle power when ordering Mounted on Candelsbara and ½ to 8 c. p. 22091 ½ to 4 c. p., 2 to 30 volt 22092 4 c. p., 30 volt 22093 4 ** 30 ** 22094 6 ** 30 ** 22095 8 ** 40 ** 22096 9 ** 60 ** With Colled Car 22097 4 to 8 c. p., 15 to 60 volt 22098 Kinetoscope 30 volt lamp, 30 fy candle power and voltage w	22090 Spherical Lamp	22090 Spherical Lamp ify candle power when ordering Nos. 23 Mounted on Candelabara and Ministu ½ to 8 c. p. 22091 ½ to 4 c. p., 2 to 20 volts 22092 4 c. p., 30 volts 22093 4 * 30 * 22094 6 * 30 * 22095 8 * 40 * 22096 9 * 60 * ify candle power and voltage when order With Colled Carbons. 22097 4 to 8 c. p., 18 to 60 volts 22098 Kinetoscope 30 volt lamp 22098 Kinetoscope 30 volt lamp 22099 Steropticon Lamp, 20 volts, 30 d fy candle power and voltage when order	22090 Spherical Lamp	22090 Spherical Lamp	22091 % to 4 c. p., 2 to 30 volts 22092 4 c. p., 30 volts 22093 4 " 30 " 22094 6 " 30 " 22095 8 " 40 " 22096 9 " 60 " ify candle power and voltage when ordering No. 32081. With Colled Carbons. 22097 4 to 8 c. p., 15 to 60 volts 22098 Kinetoscope 30 volt lamp 22098 Riveropticon Lamp, 30 volts, 30 c. p. fy candle power and voltage when ordering No. 32007,

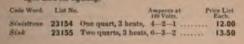


Farina Boiler.

This very useful device has proved to be the most con-venient for a great variety of uses. The outer vessel is of heavy copper, nickel plated, the inner being made entirely of porcelain, the heating coil (also nickeled) is in a water bath surrounding the porcelain pot in which the cooking is done. It is so constructed that all parts are easily separated.

Any little article of food prepared and served in an attractive manner is always more palatable, and this adds much to its enjoyment whether one is ill or well. For the many uses to which this boiler may be applied it is ideal. It is so designed that three divisions of heat may be obtained—the maximum, to quickly heat up the vessel; then a less amount may be used to do the cook-ing, or a still less amount to keep the contents of the

Made for direct or alternating current, the usual voltages used for lighting.



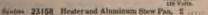
"Five O'clock Tea."

With this very handsome combination one can com-plete the fornishing of a tea table in keeping with its dainty silver, chins and linen. The silent electric cur-rent quickly supplies the necessary heat without the use of alcohol, matches and flame, and also provides a stove (when the kettle is removed), on which to warm the wafers or crackers. It is artistic in design, highly finished in silver or nickel plate. Made for any electric lighting circuit.

			-	-		Vol		
Sinter	23156	One	quart,	nickel	plated,	4	districts.	15.00
Sinkholo	23157	44		silver	*	4		20.00

Electric Stew Pan.

This is a universal utensil, very attractive in appearance, and one of the most salable of electric heating devices. The heater consists of a 4½ most disc, to which devices. The heater consists of a 4* installac, to which is fitted an (removable) Aluminum Stew Pan, with capacity of \$\frac{1}{2}\$ of a quart. Just the thing to use in lighthousekeeping, exactly what is wunted in a physician's uffice, drug store, buspital, the unrarry, or where a little food is to be cooked, a hot druk made, or hot water used. Quick, clean and inexpensive. Connects to any lamp socket. Packed complete with cord and plug.





No. 23114





Electric Curling Iron Heaters.



No. 23159.

This simple device has become a caceally many homes, apartment houses, hotels, start etc., where the incandescent lamp has displagas or lamps. It may be attached to my is socket, heats quickly, uses less current it as a c. p. lamp, and renders unnecessary candles or a more or less dangerous heating devices is dressing room. The use of an always clean is of notifitie importance when just finishing tollet. They are quite ornamental. The current sutomatically cut off when the iron is renor Made for direct or alternating current—52, 10 110 volts. Mention whether for Edison, Wesh house or T. H. Sockets. One in a package, or plete, ready for use. This simple device has become a

Code Word List No. Stoner 23159 Automatic,

Special Electric Heating Devices to order.

Electric Heating Pad.

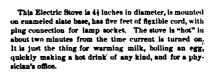
The perfection of this device is a very important in electrical development. By its use heat may be apply in an ideal way to the body. In form it is similar no of a piece of thick, soft felt. It is light (weighing a few ounces), clean, safe, and free from all objection features of hot water bottles, positives or other bot a catlons, and far more effective. It is always ready use, wherever electric lights are used, costs very lift operate, is so constructed that it will last for many y and the first cost is moderate. Its great value in the pital and cases where hot applications are necessary sustain life is evident. It is extremely useful as a warmer for invalids or elderly people, and proves to household necessity wherever used. Operates on incandescent lighting circuit. State voltage and him lamp accket when ordering.

One-half amperes at 110 volts. The perfection of this device is a very imp

Electric Cooking and Heating Apparatus

-(Continued.)

Portable Stove.



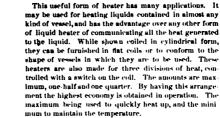


No. 23162.

Code Word,	List No.					List Price. Each.
Sinter Sintes	23162 23163	Complete,	4 in, d 7 in.	-	•	. \$4.00

The current required is 2 amperes at 110 volts. Made for 50, 100, 110 volts direct or alternating current.

Immersion Coil Heater.



The coils consist of copper tubes, and are furnished either plain or nickeled. They are made for 52 or 110 volts, alternating or direct current, of such capacity as desired.



No. 23171.

					l'to e Liteat	II with
Sipid	23171	Capacity,	100 to 44	0 Watts	\$ 6.00	\$ 7.00
Sipper	23172	••	440 " 66	0 "	7.50	8.50
Sipper	23173	••	700 " 89	0 "	8.50	9.50
Sippling	23174	4	900 *110	0 4	10.00	11.00

State voltage when ordering

Electric Glue Pot.



No. 23164.

No fire, no snoke, no dirt, no gasea, no danger. It it made entirely of burnished copper, and will last indefinitely. The water bath contains a relatively small amount of water, which is automatically replenished from a reservoir, heated by coil heater, arranged to give three divisions of heat. The maximum to be used to quickly heat the glue, and the minimum is usually sufficient to maintain the glue at the proper consistency. Absolutely no fire risk as with pots heated by gas or gasoline. This advantage alone is enough to justify a change from the old to the new. Pots are made for 52, 100 or 110 volt circuits, either direct or alternating. circuits, either direct or alternating.

		Ampères at 110 volts					
			Max	Med.	Min		
Sinnate	23164	l pint	3	1.5	2	13.00	
Sinuation	23165	1 quart	4	2.	1	14.00	
Singor	23166	2 quarts	6	3	11	16.00	
Sinnous	23167	l gallon	10	5	21	18-00	

Other sizes to order. State voltage when ordering.

In addition to the special glue pot shown in cut, we also furnish them without the reservoir. The entire pot is of heavy copper, with coiled copper heater, being in every way as substantial and durable as is possible to construct such a device. With this pot it requires from 16 to 20 minutes to have the glue ready for use, starting with overything cold. Much less time is required for the special type. In no other particular are they superior, while the price is less. In all glue pots the minimum current is sufficient to maintain the glue in proper condition for work. tion for work.

	Amperes at 110 volts Max. Med.					18.		
			Max.	Med.	Min.			
Sip	23168	1 pint	4	2	1	10.00		
Sipe	23169	1 quart	6	3.	14	11.00		
Siphon	23170	2 quarts	8	4	2	12-50		

Electric Smoothing Irons.

Unlike all others, except in form, are always clean, polished, and permit of continuous use. No time is lost in rhanging, cleaning, or useless rubbing with a cold iron, for they produce a "live heal" which is continuous throughout the period of use. A greater amount of work can be done by an operator in a given time with more ease and comfort than is possible with any other iron. The ordinary iron when first taken from the story is frequently except in a but read regularly continuous. The ordinary iron when first taken from the stoye is frequently scorching hot, and gradually cools until repeated rubbing is necessary, where one stroke would suffice if the Iron was "just right." Electric irons remain "just right," and no hot coal or gus stoves are required. These irons have proven of great value in sewing rooms, laundries and manufacturing establishments, and are deemed indispensable by those who have them.

We sail sergious attention to the Seculi Securing Levi

We call particular attention to the Small Scaining Iron, No. 23175, for apartment house use, as it is specially suitable for laces, handkerchiefs and all similar light goods. Can be attached to any lamp socket.

Each iron is supplied with a suitable stand on a slate base; also live feet of duplex conductor. For additional length add 15 cents per foot to cost of iron. Special forms for factory use, 50, 100 or 110 volts as required.







Polishing Irons.

Regular Standard Sizes,

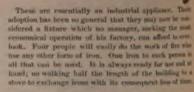
These from have the regular polisher bottom and are usually installed where the electric sad iron is adopted. Made in one weight, about four pounds.

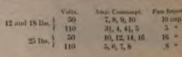
Fune required.

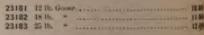
	7	110	11, 2, 24,	3 4	
Sirenical Sirenias					6.00

Valte. Amp. Commupt.

Goose Irons.







State voltage when onlying.



No. 23181.



No. 23161.

Electric Foot Warmer.

This device appeals at once to many who suffer each their head bursting from heat in a vain endeavar to keep warm. Improper distribution of heat, floor draughts, the temperature difference between the floor and a furge-level, all combine to produce cold feet and, as a sequence, an uncomfortable condition generally. The electric has warmer exactly supplies the remedy by producing a trablect just where it is wanted, and a high temperature in the room is unnecessary. It is made of cast tron, in fact in continue a worst desirable foot rest, fluidated in their jupon, is guaranteed to last for many years, and may be left in circuit indefinitely—packed remidete with earling plant, is guaranteed to last for many years. The current and plug ready to connect to lamp, saket. The current inconference is the same as for the usual (16 randle power inconference lamp. State voltage and kind of sexing when ordering. Made for all inconference lighting elevals.

23161 Fast Warmer, size 9 x 12 ins.

an walte.

Simple

Stritch

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Disc Heaters.

The cut represents Disc Heater. The heating plate is 64 inches in diameter and mounted on a cast iron base, neatly japanned.

An intense heat is made by turning the switch to the extreme right, when boiling, frying, etc. When switch is placed on middle contact the temperature is reduced is placed on middle contact the temperature is reduced one-half, where it may be maintained indefinitely. This feature makes the utensil valuable in the kitchen, sick rosm or nursery, where water may be heated or feed quickly and easily prepared. This serviceable utensil is now in use in private families, hotels, rectaurants, physicians' offices, match factories, furniture factories, printing offices, laboratories, smelting works, sugar reflueries, etc., etc.

Disc Heaters 8 and 9 inches in diameter will be made to order in lots of not less than one half dozen. Apply for prices,

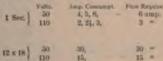
		50	6, 8, 10,	10 amp.
		110	4,	4, "
de Word.	List No.			List Price.
rupe	23188	Disc Heater, 6	In diameter	57.50

Pancake Griddles.

Griddles for Domestic use are made with one or with three pollshed circular heating plates on a rest from frame or stand, neatly japanned. Their action is very quick, being ready to bake cakes within two minutes from the time the current is turned on.

time the current is turned on.

The restaurant griddle, having one polished plate 12 x
18 in., is the largest size made. Three, lour or more of
these griddles side by side, may be operated at once or in
units of one, two or three, according to the amount of
work to be done, by which you pay for the actual amount
of work done, instead of heating up a large griddle to do
a small amount of work.



Sironne 23185 One Section, for Domestic Use (Polished Surface), 7.50



No. 23157.

Sirrah 23187 Restaurant Size, I2 x I8 (Polished Surface) 15.00

Electric Cooking and Heating Apparatus.

General Instructions as, to installation and use of Cooking and Heating Devices.

In wiring for Electric Heating and Cooking Appliances, the capacity of conductors should be the same as for electric lights or motors using the same current.

Installations must be made in accordance with the rules of the Local Board of Underwriters applying to Electric Light, Heat and Power.

Special Plug Switches should be used, and the recep-tacle properly fosed. Ordinary attaching plugs for lamp sockets must not be used; nor any appliances connected

to a lamp socket, unless expressly specified.

Flexible Conductor Cord furnished with the apparatus should be used. This cord is made expressly for the purpose; is water and fire-proof, and has been specifically approved by the Board of Underwriters.

In ordering always state voltage required. All our

apparatus will work on either the direct or alternating current.

All articles are marked for the volts required; und to circumstances should the apparatus be used on circuits of different voltage

In the event of failure of any article to operate properly, notify the agent from whom you purchased the de-vice, explaining the nature of the failure as you under-stand it, but do not take the article apart.

When using the cooking utensils always prepare the

food before turning on the electricity; and if the is to hold a liquid, be sure that esme liquid is in 8

the current is turned on, and that the supply is hausted while the utensil is in use. Never empty a vessel while the current is turne Articles should never be taken apart nor lume

water, unless intended for that purpose.

Appliances for heating water in which the heat paratus is enclosed in a collect copper tale, shallways kept supplied with sufficient water to or

Always turn the current off wh in use. As this rule is observed, it is chesper at than coal.

springs or rubber bands over the work tables keep the wires away from the work. heat rapidly when on the stand with the Doo't pull the utensils around by the councel Smoothing irons, portable stoves and similar require from four to ten minutes to heat to the

temperature. Devices for boiling, such as chaffing dishes, farina boilers, glue pots, etc., ten to twenty minutes to boil. Large uras, fi



No. 23152

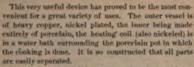
Electric Chafing Dish.

The use of a Chaffing Dish has been The ness of a Chaffing Dish has become swill universal, but how frequently does it happen when the guests are gathered at the table discovered that the alcohol is exhausted. Electric Chaffing Dish requires no alcohol, is silvenys ready for use. It is furnished in a grapatiern, in the conventional form, of spusses highly fluished in aliver or nickel. A most action of the conventional form, or spusses the convent able present for any one.

Code Word. Distribu.

23152 Two quarts, nickel plated, 23153 Two quarts, silver plated,

Farina Boiler.



Any little article of food prepared and served in an attractive manner is always more palatable, and this adds much to its enjoyment whether one is ill or well. For the many uses to which this boiler may be applied it is ideal. It is so designed that three divisions of heat may be obtained—the maximum, to quickly heat up the vessel; then a less amount may be used to do the ing, or a still less amount to keep the contents of the of warm.

Made for direct or alternating current, the usual voltages used for lighting.

Code Word.	List No.	Amperes 24	Price List
Sinistrons	23154 One quart,	3 heats, 4-2-1	Mark Co.
Sink	23155 Two quart	s, 3 heats, 6-3-2	13.50

"Five O'clock Tea."

With this very handsome combination one can com-plete the furnishing of a tea table in keeping with its dainty silver, china and linen. The silent electric current quickly supplies the necessary heat without the use of sloohol, matches and flame, and also provides a store (when the kettle is removed), on which to warm the waters or crackers. It is artistic in design, highly finished in allver or nicket plate.

Made for any electric lighting circuit.

	-			Amp	Amperes at			
Studer	23156	One	quart,	nickel				15.0
Sinkhole	23157	66	"	silver	a	A	SEATING.	20.0

Electric Stew Pan.

This is a universal utensil, very attractive in appearance, and one of the most salable of electric heating devices. The heater consists of a 44 lnc% disc, to which is fitted an (removable) Aluminum Stew Pau, with ca-pacity of ‡ of a quart. Just the thing to use in light-housekeeping, exactly what is wanted in a physician's office, drug store, bospital, the nursery, or where a little food is to be cooked, a hot drink made, or hot water used. Quick, clean and inexpensive. Connects to any lamp socket. Packed complete with cord and plug.

Apperes at 110 Volts.

Sinless 23158 Heater and Aluminum Stew Pan, 2



No. 23154.





Electric Curling Iron Heaters.



No. 23159.

This simple device has become a necessmany homes, apartment houses, hosele, six setc., where the incandescent ising has disgas or lamps. It may be attached to an accket, heats quickly, uses less current that c. p. lamp, and renders unnecessary exadles o more or less dangerous heating devices dressing room. The use of an always class of no-little importance when just finish tollet. They are quite ornamental. The cur automatically cut off when the iron is restanded for direct or alternating current—52, 110 volts. Mention whether for Edison, Whouse or T. H. Sockets. One in a package plete, ready for me.

Code Word	List No.		Amperes of	1	la Prin
Sinarr	23159	Automatic,	44		\$3.00

Special Electric Heating Devices to order.

Electric Heating Pad.

The perfection of this device is a very important step in electrical development. By its use heat may be applied in an ideal way to the body. In form it is similate to that of a piece of thick, soft felt. It is light (weighing but a few ounces), clean, safe, and free from all objectionable features of hot water bottles, poultices or other hot applications, and far more effective. It is always result for use, wherever electric lights are used, costs very little to operate, is so constructed that it will last for many vests, and the first cost is moderate. Its great value to the applical and cases where hot applications are necessary is sustain life is evident. It is extremely useful as a hot warmer for invalids or elderly people, and proves to be a household necessity wherever used. Operates on any incandescent lighting circuit. State vultage and kind of lamp socket when ordering. One half amperes at 110 volts.

Electric Cooking and Heating Apparatus

—(Continued.)

To F

No. 23162.

Portable Stove.

This Electric Stove is 44 inches in diameter, is mounted on enameled slate base, has five feet of flexible cord, with plug connection for lamp socket. The stove is "hot" in about two minutes from the time current is turned on it is just the thing for warming milk, boiling an egg, quickly making a hot drink of any kind, and for a physician's office.

Code Word,	List No.						L	st Price Each.
Sinter	23162	Complete,	4 in.	diam.,	ready	for	use	\$4.00
Sinter	23163	ü	7 is.	4		•	·	7.00

The current required is 2 amperes at 110 volts. Made for 50, 100, 110 volts direct or alternating current.

Immersion Coil Heater.

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No. 23171.

This useful form of heater has many applications. It may be used for heating liquids contained in almost any kind of vessel, and has the advantage over any other form of liquid heater of communicating all the heat generated to the liquid. While shown coiled in cylindrical form, they can be furnished in flat coils or to conform to the shape of vessels in which they are to be used. These heaters are also made for three divisions of heat, controlled with a switch on the coil. The amounts are maximum, one half and one quarter. By having this arrange ment the highest economy is obtained in operation. The maximum being used to quickly heat up, and the minimum to maintain the temperature.

manning in the temperature.

The coils consist of copper tubes, and are furnished either plain or nickeled. They are made for 52 or 110 volts, alternating or direct current, of such capacity as desired.

Sipid	23171	Capacity	, 100 to	, 440	Watts	Fri e t heat \$ 6.00	11 with 11 mate \$ 7.00
Sipper	23172		440 "	GCO	*	. 7.50	8.50
Sipper	23173		700 **	HM)	*	. 8.50	9.50
Bippling	23174	4	(NX) "	1100	"	. 10.00	11.00

State voltage when ordering



No. 23164.

Electric Glue Pot.

No fire, no snoke, no dirt, no gases, no danger.

It it made entirely of burnished copper, and will last indefinitely. The water bath contains a relatively small amount of water, which is automatically replecished from a reservoir, heated by coil heater, arranged to give three divisions of heat. The maximum to be used to quickly heat the glue, and the minimum is usually sufficient to maintain the glue at the proper consistency. Absolutely no fire risk as with pots heated by gas or gasoline. This advantage alone is enough to justify a change from the old to the new. Pots are made for £8, 100 or 110 with circuits, either direct or alternating.

	Amperes at 100 volts.							
		Max.	Med.	Mia.				
23164	1 pint	3	1.5	1	13.00			
23165	l quart	4	2.	1	14.80			
23166	2 quarts	6	3	1 5	16.00			
23167	1 gailon	10	5	24	18.00			
	23165 23166	23164 1 pint	23164 1 pint 3 23165 1 quart 4 23166 2 quarts 6	Max. Med. 23164 1 pint	Max. Med. Min. 23164 1 pint			

circuits, either direct or alternating.

Other sizes to order. State voltage when ordering.

In addition to the special glue pot shown in cut, we also furnish them without the reservoir. The entire pot also furnish them without the reservoir. The entire pot is of heavy copper, with coiled copper heater, being is every way as aubstantial and durable as is possible to construct such a device. With this put it requires from 16 to 20 minutes to have the glue ready for use, starting with everything cold. Much less time is required for the special type. In no other particular are they susperior, while the price is less. In all glue pots the minimum current is sufficient to maintain the glue in proper condition for work. tion for work.

			Max.	Med.	Mia.	
8ip	23168	1 pint	4	2	1	18-80
Sipe	23169	1 quart	6	3.	14	11.00
Siphon	23170	2 quarts	8	4	2	12.00

Electric Smoothing Irons.

Unlike all others, except in form, are always clean, polished, and permit of continuous use. No time is lost in changing, cleaning, or useless rubbing with a cold fron, for they produce a "five heat" which is continuous iron, for they produce a "live heat" which is continuous throughout the period of use. A greater amount of work can be done by an operator in a given time with more case and comfort than is possible with any other iron. The ordinary iron when first taken from the stove is frequently scorching hot, and gradually cools until repeated rubbing is necessary, where one stroke would suffice if the iron was "just right." Electric irons remain "just right," and no hot coal or gas stoves are required. These irons have proven of great value in sewing rooms, hundries and manufacturing establishments, and are deemed dries and manufacturing establishments, and are deemed dries and manufacturing establishments, and are deemed indispensable by those who have them.

We call particular attention to the Small Seaming Iron,

We call particular attention to the Small Seaming Iron, No. 23175, for apartment house use, as it is specially suitable for laces, handkerchiefs and all similar light goods. Can be attached to any lamp socket.

Each iron is supplied with a suitable stand on a slate base; also five feet of duplex conductor. For additional length add 15 cents per foot to cost of iron. Special forms for factory use, 50, 100 or 110 volts as required.





No. 23177



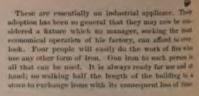
Polishing Irons.

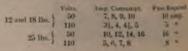
Regular Standard Sizes.

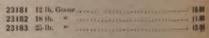
These irons have the regular polisher bottom and are smally installed where the electric and iron is adopted. Made in one weight, about four pounds.

		Volta. 50 110	Amp. Consumpt. 3, 4, 44, 5, 14, 2, 24,	Fase required. 5 acrp. 3 "
trenicul	23179	50 Volts.		6

Goose Irons.







State voltage when ordering.



No. 23181.

No. 23161.

Electric Foot Warmer.

This device appeals at once to many who suffer their head bursting from heat in a value endeaver at warm. Improper distribution of heat, floor draw the temperature difference between the floor and a hievel, all combine to produce cold feet and, as a spean unconfortable condition generally. The electric warmer exactly supplies the remedy by producing a heat just where it is wanted, and a high temperature for room to unnecessary. It is made of cast-timp, is to constitute a most desirable foot rest, finished in biggan, is guaranteed to had for many years, and meleft in circuit indefinitely—packed complete with and plug ready to connect to lamp sucket. The carrequired is the tame as for the usual (Bi-candle ps because cent lamp. State voltage and kind of as when ordering. Made for all incandescent lighting cuits.

Simple 23161 Foot Warmer, size 9 s 12 lin.

Sicionia Stritch Stelan



Electric Cooking and Heating Apparatus

(Continued.)

Disc Heaters.

The cut represents Disc Reater. The heating plate is 6) inches in diameter and mounted on a cust from base, neatly japanned.

neatly japanued.

An intense heat is made by turning the switch to the extreme right, when boiling, frying, etc. When switch is placed on middle contact the temperature is reduced one-half, where it may be maintained indefinitely. This feature makes the utensil valuable in the kitchen, sick room or nursery, where water may be heated or food quickly and easily prepared. This serviceable utensil is now in use in private families, hotels, restaurants, physiciane' offices, match factories, furniture factories, printing offices, laboratories, ameling works, sugar refineries, etc.; etc.

Disc Heaters 8 and 9 luches in diameter will be made o order in lots of not less than one half dozen. Apply for prices.

		50 110	6, 8, 10,	10 amp.
le Word.	List No.			List Price
	02100 D			E.sch.

Pancake Griddles.

Griddles for Domestic use are made with one or with three pollshed circular heating plates on a cast fron frame or stand, neatly japanned. Their action is very quick, being ready to bake cakes within two minutes from the

The restaurant griddle, having one polished plate 12 x 18 in., is the largest size made. Three, four of more of these griddles side by side, may be operated at only or in units of one, two or three, according to the amount of work to be done, by which you pay for the actual amount of work done, instead of heating up a large griddle to do a small amount of work,

1 Sec.)	50 110	Amp. Consumpt. 4, 5, 6, 2, 24, 3,	fuse Require 6 amp. 3 a
12 = 18	50 110	30), 15,	30 4

Sirnams 23185 One Section, for Domestic Use (Polished Surface), 7.50

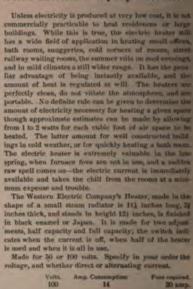


Mo. 23187. ,

Strept 23187 Restaurant Size, 12 x 18 (Polished Surface) 15.00

Electric Air Heaters.

Western Electric Company's Heater.



		100		14	20 1	aio.
Code Word.	List No.					Ling Prince
Servente	23189	Western	Electric	Heater		\$18.00

American Heaters.

The Hesters are finished in Hack Japan, and usually arranged to give three different adjustment heat. They are made for any circuit. State whether direct or alternating, and voltage

Cide Wort	List No.	Le	ágO	i H	night	4	W	áth:	Max. Wi	
Sindgrass	23190	25	in:	x 22	in.	×	2	in.,		
Sivery	23191	26	14	x 22	80	۸	A	9	4,000	30.00
Blokin	23192	26		1 22	18	п	17	м	6,000	45.88
Stikinit	23193	26	Mt 3	x 10	200	X	2	*	1,200	
Size	23194	25	** :	x 10	100	в	4	*	2,400	26.00
Slave	23195	26	83	10	90	в	7	*	3,500	35.00
Sit	23196	26		K 10	12	×	10	-	4,500	40.00

Made in Gold Bronse to Lisz Prings.



No. 23189.



Electric Air Heaters-(Continued.)

Atmospheric Heater.

Double.

This Heater is constructed with two heating plates, each 7×8 inches, supported on a neat base four inches high. In setting up, it can be so arranged that one or both plates may be used at the same time, and will be found very serviceable in small rooms or for other light work.

	110	8#	9 "
ode Word.	Lint No.		List Pric

Volts. Amp. Consumption.

Fase Required.

23197 Atmospheric Heater

No. 23107.





Stationary Electric and Car Heater.

Each Heater consumes 1 ampere on 500 volta circuit, giving a temperature of 220 deg. Fah-renheit at Grair Opening. Size Type B, 21 inches long, 104 inches high, 24 inches deep, Weight 22 pounds.

Aconite 25589 Type B, Car Heater 15.00

Type C panel heater for size seat cars heat-ing coils and current consumption same as type B.

Amalline 25590 Type Cear heater 15.00



No. 23400.

Rester with Jacket removed

Will work on either direct or
alternating current.



No. 25388.

Portable Electric Heater.

The smaller heater contains ten less ing coits, each coil consuming 3 of 1 ampere on 110 volt circuit.

The larger heater contains twenty heating coits, each coil consuming II of ampere on 110 volt circuit.

To determine the heating capacity of these heaters figure 1 wait of electric energy to every two cubic feet of air space

This rule will hold good in well constructed buildings, with the consistent persuant at 32 degrees Fabrenheit

Code Word Lee No G No Reb Sisteria 23199 900 Height 194 inches, diameter, 14 inches, weigth, 28 pounds \$20.80

diameter, 11 inches, weight 35 pounds

Electric Broiler.

Size 9 x 11 broiler, weight, 27 pounds, 8 amperes, 110 volts.

Broils neaks, chops or chickens as six minutes.

There is no robo or smake from the Broiler, as the hear is applied from the top. The jucies of the mast are retained and a rich flavor imparted, which it is impossible to obtain by any other method.

Can be used in windows or on leach counters by simply attaching to any electric light circuit.

Cannot be appreciated without a trial,

Acolythist 25588 Electrical Broller 2000

When ordering please state voltage.



Electric Soldering Iron.

The advantages of an electric soldering iron over the are savantages of an electric soldering true over the heated by gas, gasoline, or charcoal, are numerous. The heat is constantly applied, the copper remains that much longer, and the operator can work right along with one iron, thus saving considerable time. In he weather it is a great boon to discard the old time solder-

ing-iron store or furnace, and use an iron that calmo heat except at the point where wasted.

The irons are made in different sizes to meet all requirements. When ordering specify what kind of well the least of the desired states. the iron is to do.

Special irons made to order. Always state voltage.

No. 2 Regular.

No. 2 Light.

This iron is made for very light work. It is a great time saver and a very convenient tool. Can be attacked to an ordinary lamp socket. Wound for any voltage up to 125, direct or alternating. List No 28460 Weight, I lb. 6 on; length 13 in; tip # li diameter. Concumes 125 watts.... Code Word.

No. 25(69

No. 25470

No. 25471

No. 25472

Accomptant

This size will do for any work requiring a medium is iron, such as light timenth's work, lead glazing, solic ing commutator connections and bands on small arms tures, wire joints in ceilings, and places where the men' from a fame would be objectionable, etc. It is not is tended for heavy work.

Wound for any voltage up to 125, direct or alternating 25470 Weight, I lb. 10 oz.; length 134 in.; tip 1 is

diameter, either chisel shape or pointed. Cor sumes 155 watts. No. 3 Regular.

The iron is recommended for all-around work. It heavy enough to do any ordinary soldering, and is not it heavy to be used on light work.

Will be found well adapted for banding armstares of any size, electrotype soldering, regular timulti

It is also made with a straight pointed tip, § inch disseter, known as No. 3 light. If anchored to the wo beach, leaving both hands of the operator free to hand

the work, it can be used to great advantage on toys, las cases, fuse plugs, etc., and will save time. Wound for any voltage up to 250, direct or alternatis 25471 Weight, 2 lbs. 8 oz.; length 14 in.; tip 14 diameter, either chisel shape or pointed. Co sumes 380 watts...

No. 4 Regular.

This size is intended only for extra heavy work, as will get very hot. It is constructed on the same pri

cipal as the other sizes.

Accordancy

Accordable

Wound for any voltage up to 250, direct or alternatia 28472 Weight, 4 lbs. 4 oz.; length 15 in.; tip 18 idiameter, either chiesl shape or pointed. Or stames 250 watts





Crum Section.

Conduit and Conduit Fittings.

Interior Conduit.

Iron Armored Conduit.

For Direct and Alternating Currents.

The Iron Armored Conduit possesses all the qualities of gas or water pipe, and can be installed with equal ease by the use of tools for cutting, threading, etc. In combination with the brass armored conduit it can be advantageously employed in construction work under concrete, tiled or mosale floors, and other like places, without the expensive precautions for protection that are necessary in the use of plain or brass armored conduit.

Thickness of armor, i inch. All sizes supplied in ten foot-lengths, each length having a coupling attached to one end. Tubes have straight threads at both ends, and in making joints these ends should be firmly butted by center of coupling to secure continuity of insulation.

Prices on all Iron Armored Conduit and fittings are subject to change, on thirty days' notice, on account of the fluctuation in prices of iron piping. Contractors are advised to obtain from us latest quotations before placing their orders.

Code Word	Lina No.							4	or Price Per 100 IL
North	6710	1	in,	inside diane.	.84	in.	outside	diam	\$10.25
Needlein	6711	10	-		1.05	41.	.00		13.00
Nevillenity	6712	13	-	-	1.315	0	-		18.00
Needlework	6713	14	- 64		1.06				28.00
Neglected	6714	14	-84		1.90	-	- +	-111	36.00
Negotiate	6715	10	-68	-00	2.370	100	-		50.00
Negro	6716	21	-01	-0	2.875	-		11164	67.00
Negan	6717	2 %	-14	-14	3,50	-	-	1981	84.00

All cibows, nipples and special couplings, as well as tools necessary for use with Iron Armored Conduit, can be furnished by us, and prices on same may be had on application.

Iron Amored Conduit-(Continued.)

	No.	519	ir	on Cove	red	S EII	bow.	
Code Word.	List No.							List Price Per ton
Nomadic	6728	+ 1	nch,	ipside diam.,	14 la	ches offs	et	
Nomenchitus	√ 6729	4	4	•	17	44		62.00
Nominal	6730	*	•	4	19	44		76.00
Nominate	6731	11	4	•	23	•		96.48
Nonage	6732	14	"	•	28	4		. 182.00
Nonconform	i≠6833	ï	4	4	16	*		42.70
Nondescript	6834	*	4	•	19	*		64.25
Nones	6835	Ä	4	•	21	44		. 79.10
Nonparcil	6736	Lį.	4	•	25	•		100-46
Nonplus	6737	14	-		30	-4		187.00
Nonscase	6738	i	4	44	18	4		44.48
Nook	6739		*		21	4		. 66.50
Noon	6740			•	23	44		. 82.20
Noondry	6741	11	4		27	4		. 104.40
Normal	6742	14	4		32	4		. 192-00

No. 6743.

No. 6728.

·--.

No. 512 Iron Covered Corner Elbow.

Northerly	6743	4	inch,	inside diam.,	14	inches offset		41.00
Northern	6744	17		•	17	u		62.00
Northward	6745		. 4		19	44		76.00
Nongay	6746	11	**		23	•		96.40
Nosalogy	6747	1.5	. "	4	24			182.00
Nostrum	6748	į	41	4	16			42.70
Notable	6749		, "	4	19	-		64.25
Notably	6750	- 6			21	•		79.10
Neturnal	6751	11		"	25			100.40
Notary	6752	13	. "	44	30	••		187.00
Notation	6753	j	**	u	18	**		44.40
Notch	6754	.7.	. "		21			66.50
Note	6755	- 8		44	23			82.20
Notebeak	6756	11	14	44	27	**		104.40
Noted	6757	1,	. "	•	32		.	192.00

No. 416 Long Insulating Elbows.

No. 116 Elbow corresponds in style with No. 116 Brasa' Armored Elbow.

INSIDE DIAMETER	+	10 16	11	14	OFF-SET.
Length, 10 inches Per 100 12 " " " 14 " " " 16 " " " 18 " "	\$23 00 25 00 27 00 29 00 31 00		63 00	\$106.00 114.00	† inch Elbow, 6g inches. 7 11

Iron Armored Conduit—(Continued.)

			iron A	Armored	Condu	it—(Co	nt inued .)	
		No.	414 List No		Insu	lating	Elbow	S. List Price,
								Per 100.
		Nocturnal Nod	6718 6719		, inside			
No 6718.		N oddie	6720		•			
No ma		Noddy		ii -	4			
		Node		114 "				
		Nodule		1,4, "			· · · · · · · · · · · · ·	
		Noggin Noise		2, -				
			-	-				
No. 21475.		No. 41	8 Ins	ulatin	g Ou	tlet E	lbows.	
	Sunci	21475	1 Inch					22.00
	Sauce Baucy		-					
	Sauerk							40.00
		No. 41	9 Ins	sulatin	ıg Ou	tlet E	lbows.	
No. 21476.	Saunt	21478	4 inch	inside di	nmeter			20.00
NO. 218 In.	Silva	21479	,, "	•	•			27.00
	Bauri	21480		••	••			35.00
		No. 58	o Ins	ulatin	g Ell	ow O	utlets.	
		•			_			
	Baum	21481		inside di				
	Sarab Sara	21482 21483	4 " 4 "					
No. 21481.	Satagel	21484						
_								
				• 4.				
		No. 58	i Ins	ulatin	g Elt	юw U	utiets.	

Savayen Savayer Sacayis Savanna

No. 215/6.



No. 244.

Iron Amored Conduit-(Continued.)

No. 284 Insulating Nipples.

List Prices.

DIAM.		LENGTH IN INCHES			PRICE	EACH.		P	RICE, E	EACH, (OF EXT	RA LO	NG.			
Inches.	Clone.	Short		L	ong		Close or Short.	Long.	5 in.	6in.	7 in.	Sin.	9 in.	10 in.	ii in.	Ha
1000 H 10	111111111111111111111111111111111111111	16 2 26 26 26 26 26 26 3	2 2 2 3 3 3 3 3 4	24 3 3 34 34 4 4	3 34 34 4 4 4 4 4 4 4	34 4 4 4 4 4 4 5 5	\$0 07 09 10 14 17 25 56 75	80 10 11 15 20 25 35 75 95	80 18 20 22 29 36 44 75 95	\$0 19 21 24 31 38 49 80 1 00	\$0 20 22 27 33 40 54 85 1 06	\$0 21 23 29 35 42 59 91 1 15	\$0 22 25 31 38 45 64 1 00 1 24	\$0 23 27, 33 40 48, 69 1, 10 1, 34	\$0 \$5 29 36 43 51 74 1.30 1.44	10 E

1100	14	21 21 21 21 21 21 21 21 21 21 21 21 21 2	3 3 3 4 3 4	34 34 34 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 44 44 5 5	14 17 25 56	20 25 25 35 75	29 96 14 75 86	31 38 49 80 1 00	33 40 54 85 1 06	35 42 50 91 1 15	38 45 64 1 00 1 24	40 48 69 1, 10 1, 34	43 51 74 1 36 1 44	46 55 79 1 30 1 55
					American			N	^	104	Cou	nlin				
						Code Word	l. List	No.		-		•	_		L	at Price
	_		_			Sama	2148				diamet	er, pe	r 100.	· • · •		\$7.00
						Sav	2149		4	-			" .	· • · • · • ·		10-00
- 1						Вачения	2149		4	•	-		•	• • • • •	• • •	13.00
1						Sani	2149				•		.	• • • •		17.40
						Saringo	2149		-		_		Ξ.	• • • •	• • • •	21.00
	N	io. 214 8	19.			Bavingae Savo	2149			_			_	• • • •	• •	20.00
						Satori	2149				•			• • •	•	24.89
						COTTOTE	2148	614 0							•••	4.0
							No. 1	04 R	igl	ht a	ind [_eft	Cou	pling	78.	
						Sacort	2149	7 41	nch	inside	diamet	er, pe	r 100			11.00
						Savoryi	2148	8 %	*	4	4		• .			15.00
						Baul	2149	9 🚡	•	•	4		4			20.00
						Savdud	2150	O IŁ	•	•	-		٠.			25.00
						8nemill	2150	1 14	•		-		٠.			30.00
	A	and the				Sawpit	2150		4	•	•		٠.			50.00
	<i>-</i> 1					Sawet	2150		4	•	•		•			85.00
						Sawyer	2150	4 2,4	4		-		٠			120.00
			7						N	0. 5	82 C	aps.				
	N	io. 2150	5.			Sazifrage	2150	S 11		•	diamet	•				5.00
						Saron	2150		4	4	w	ar, per		•• •••		3.00 2.00
						Sazoniam				-	**				• • • •	11.00
						Scub	2150			•	•					15.00
						Scubbard	2150			•	**		- :			22.00
						Scabbed	215						• ::			30.00
						Scubiness			44	4			• :			50.00
						Scubby		2 2,	•					••••	• • • • •	80.00
						-		No. 5		Die	ıœ	Cas	+ I~			
			1					_	_		_	~~	- 111	<i>7</i> 11.		
	4		L			Scalious	2151			each		· · • • •	•••••	• • • • • •	• • • •	.44
						Scubrous	2151			-	• • • • • •	• • • • •	• • • • • •	· • • • •	•• •••	.45
						Skewback	2405		**	-	• • • • •		• • • • •	• • • • •	· • • • · ·	-96
	•					Skewbrid	7 2405 2406				• • • • • • •	· · · · · ·	• • • • • •		• • • • •	-10
						Bkacer Shannan	2408			-	• • • • • •	• • • • •	• • • • • • •	•••••	• • • • • •	.13
	N	io. 2151	4.			Skreery	2400	1 14	-	-		.	•••	••••	•• •••	-24

Conduit and Conduit Fittings.

INTERIOR CONDUIT.

New Iron Armored Insulating Conduit.

For Direct and Alternating Currents.

The New Iron Armored Insulating Conduit consists of the well-known insulation still further improved within a wrought iron pipe, the thickness of the armor being about 1-16 inch. The outside diameters of commercial aroun 1-16 lices. The outside diameters of commercial wrought from gas pipe are maintained in the new system; a reduction in the thickness of the wall giving greater inside diameter. It is impassible to draw or force the insulating lining out of the pipe as it is placed there under high pressure, filling up the interatices, and leav ing absolutely no air space between the insulation and the iron. The flexibility of the system is amintained by the

use of junction boxes, fittings, etc.

The New Iron Armored Inaubiling Conduit possesses

all the qualities of gas or water pipe, and can be installed
with equal case by the use of tools for cutting, thread

ing, etc.
In combination with the Bruss Armored Conduit it can be advantageously employed in construction work, under concrete, tiled or mosaic floors, and other like places, without the expensive precautions for protection that are necessary in the use of plain or Brasa Armored Conduit.

A saying in labor is effected in installing the New Iron

Armored Conduit, inasmuch as it can be installed in advance of the mason work, at the most advantageous time during the construction of a building, without fear of accident to it by masons, mechanics or other workmen.

Code Word	Lint No.							13	lat Price. Per ion fe.
Site	24003	24	In.	inside diam.	.675	in.	outside	diam	\$ 9.25
Sited	24004	*	**	-10	.84	14	- 11	TATE	11.50
Sitfust	24005	2	44	AL	1.05	41	-11	-411	15.00
8th	24006	1	*	98	1.315		**		21.00
Silology.	24007	11	10.		1.66	**	**		27:00
Sitta	24008	11	+	-0	1.90	#	**		34.00
Sitter '	24009	2	-	***	2.375	**			47.00
MALE	MARKE	mi.	144	- 24	-	46	14		

All sizes supplied in ten foot lengths, with a coupling

Trues have slightly tapering threads at both ends, and in making joints these ends should be firmly abutted in center of coupling to secure continuity of insulation. Wherever the tube is cut the burr should be removed by using Butt Reamer.

Prices on all New Iron Armored Condult and Pittings are subject to change without notice, on account of the fluctuation in prices of iron piping. Contractors are ad-vised to obtain from us latest quotations before placing their orders.





New Iron Armored Conduit -- (Continued.)

No usua Iron Covered S Filhou

		No. I	51	9 Ire	on Co	vered	5 E	ibow.	
	Code Word	List No.							Last Proce
	Sized	24027	14	ioch, k	nside dia	m., 14 in	ches of	lant	
	Sizel	24028	Ť		4	17	4		
	Sizer	24029	1	4	4	19	•		62.00
	Sizines.	24030	1	44	*	23	•		76-80
	Si:ing	24031	11	4	*	94	•		96.00
	Nicy	24032	٨.	4	4	16	4		34.50
	Sinle	24033		•		19	4		. 42.79
	Sizzling	24034	2	•		21	•		. 64.00
	Skain	24035	ı	44	4	25	-		. 79.00
	Sk rld	24036	11	*	4	30	•		. 196.00
No. 21027.	Skale	24037	14	•	4	18	*		. 35-00
	Skater	24038		44	••	21	-		. 44.44
	Skayless	24039	3	•	••	21	•		66.00
	Skorn	24040	1	44	•	27	•		. 82.00
	Sked	24041	14	44	**	:2:	-		184.00

No. 24012.

No. 1512 Iron Covered Corner Elbow.

Steet	24042	4	inch	inside dian	n., 11 1	nches of	ff⊲-t	33-00
Skey	24043	à	*4		17	•		41 00
Skegger	24044	i	-	**	19	-		62 00
Skein	24045	1	••	•	23	-4		76.00
Skeletal	24046	1 }		••	2%			96 00
Skeleton	24047	4	••		16	•		34 50
SL(2)g	24048	ŧ	••	••	19	4		42 70
Sken	24049	1	**		21			64 00
Stelp	24050	1			25	••		79.00
SLp	24051	11	٠	•	300	4		100.00
St. ptic	24052	4	ч	•	18	**		35 00
Skeptical	24053	ì	•		21	•		44.40
Steptorion	24054	i	**	44	23	4		66.00
M ptoria	24055	1	••		27	-4		82.00
Starry	24056	11	••	44	32	44		104.00

No. 1416 Long Insulating Elbows.

No 1446 Elbow corresponds in style with No. 116 Brass Armored Elbow.

INSIDE DIAME	HR	1.4	. 2	1 1	11	OFFSET.
Length, 12 inches. 14 " 16 " 18 "		\$22.50 24.00 25.50 27.00	27 50 37 29 50 37	\$43.50 30 47.00 50.50 54.00	61 00	# inch Ellow, 7 inches

	(N	ew Iro	n A	rmo	red C	onduit-	-Cont	inued.)
	No.	1414	Sł	ıort	Ins	ulatin	g El	bow	s.
	Code Word	List No.					•	1	ist Price. Per 100.
	Situate	24011	4	lach,	louide	diameter	·		\$16.00
	Situation	24012	ï	4	4	44	 .		18.00
No. 24011.	Situated	24013	ž	4	••	*			23.00
	Situs	24014	1	4	4				30.00
	Siona	24015	12	"	**	44			35.00
	Siver	24016	14	4	44	44		. .	60.00
	Sirfold	24017	2	*	44				165.00
	Sispence	24018	24	•		44			240.00

No. 21430.

No. 21433.

No. 1418 Insulating Outlet Elbows.

Satiate	21430	7.	inch	•													 			21
Satiation	21431		4			 								 			 ٠.			24
Batiety	21432	2	•		 	 											 			28

No. 1419 Insulating Outlet Elbows.

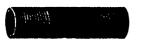
atin 2	11433	- 14	inch	inside	diameter	r	18.00
alian 2	21434		4	4	44		20.00
atinflower 2	21435	ŧ	"	••			24.00

No. 1580 Insulating Elbow Outlets.

	Batınıpar	21436	14	inch	inside	diameter	 25.00
	Battnet one	21437		u	4	u	 30.00
	Satinwood	21438		4	•	4	 38.00
	Bating	21439	1	*	**	**	 50.00
	Sixpenny	24019	11	44	*	44	 70.00
	Bizacore	24020	14	4		4	 85.00
	Sizzhooter	24021	2	**	•	**	 110.00
	Sirthly	24022	2	4	"	•	 150.00
No. 21436.							

No. 1581 Insulating Elbow Outlets.

		Station	21440	14	inch	inside	diameter	·	25.00
-	•	Satire	21441	1	**	**	••		30.00
		Batirie	21442	i		4+	**		38.00
		Batirical	21443	i	**	44	44		50.00
		Sizthrate	24023	14	. 4	u	**		70.00
		Sixticth	24024	14	**	4	4		85.00
		Hizable	24025	2			4		110.00
No. 21540.		Sinar	24026	24		4			150.00



No. 1294.

Interior Conquit-(Continued.)

New Iron Amored Conduit-(Continued.)

No. 1284 Insulating Nipples.

										L	st Prk	206.				_
INSIDE DUM.		4.ES	GTH	IN INC	IES.		PRICE	EACH		P	RICE, I	EACH,	OF EXT	TRA LO	NG.	
Inches	Choe.	Short		Lo	ng.		Close or Short	Long	Sig.	øjn,	7in.	sin.	9 iu.	10 in#	His.	IZ in.
1 1 1 1 1 1 2 2 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1) 2 2 2 2 2 2 2 3	2 2 2 3 3 3 3 3 4	21 3 3 3 3 4	3 3 3 4 4 4 4 4	31 4 4 4 4 4 4 4 5	50 00 07 09 10 14 17 25 56	\$0 09 10 11 15 20 25 35 75	\$0 17 18 20 22 29 36 44 75	\$0 18 19 21 24 31 38 49 80	\$0 19 20 22 27 33 40 54 85	\$0 20 21, 23 29 35 42 50 91	80 21 22 25 31 38 45 64 1 00	\$0 22 23 27 33 40 48 60 1 10	50 21 25 25 36 48 51 74 1 20	100
						Code W Batirie Satiric	(2	1445			_	upli ster, pr	r 100.		· · · · · ·	ist Price. \$6.00 7.00



No. 1104 Right and Left Couplings. Satisfy

Satrap Satrapal Satrapess Satrapical 38.00 56.00 2 " Satrapy Saturable No. 1582 Caps. 21460 21461 21462 Siturant

Satire

Raturate

Baucilea



No. 21460.

.....11.00

...... 5.00 8.00 11.00 Saturation 21463 1 " " 21464 1½ " " 21465 1½ " " 21466 2 " " Baturity Satarn Saturnalia 22 Saturnalian 21466 2 "
Saturnaliar 21466 2 " No. 1583 Plugs. Cast Iron.



No. 21469.

Saturaian

21468 å " 21469 å " 21470 l " 21471 li " 21472 li " * Saturnine Satur Satyric м..... Sauce Saucebory Saucerz 21473 2 " 21474 24 "

4

Iron Armored Insulating Conduit—(Continued.)

Single Tube System for Direct or Alternating Currents.

flain Junction and Terminal Box.

If installation is to be made before partition walls are erected, we place the Outlets to order, to clear the thickness of Terra Cotta wall. If orders for special Boxes do not specify "Brick" or "Lath and Plaster," we make



them for Brick Work.

Code Word List No

too far into the Boxes.

Porcelain Cut-Out for No. 32502.

Bhrickily 1201 Two Circuit Cut-Out 1.80

Covers for Box No. 32502.

DIMENSIONS OF BOXES	FINISII.	DES	IGNS
OUTSIDE.	FINISH.	No. 32034	No. 32036
6 x 3}	Bronze Polished Nickel "Galvanized Plain Iron	\$0 65 55 55 40	90 65 60 20

Double Tube System for Direct Current Only.

Main Junction Boxes for Double Tube Mains and Double

Tube Branches.

They are made so that covers can be used.

Junction Boxes for Brick or Terra Cotta Work have the upper rim of boles parallel with and & inch from rim of box.

Junction Boxes for Lath and Plaster Work have the upper rim of holes parallel with and 2 inch from rim of box.

Bketchy	32002	Two Circuit, Main Line, for Brick; length, 8	
		ins.; width, 24 ins.; depth, 3 ins	6.50
8kew	32011	Two Circuit, Main Line, for Lath and Plaster,	
		length, 8g ins.; width, 3g ins.; depth, 3g ins	6.75

Porcelain Cut-Out for Nos. 32002 and 32011.

1281 Two Circuit Cut out Blemarch 1.90 Porcelain, 1 inch thick.



No. 25008.

Metal Covers for Junction Boxes.

DESIGNS	
33062 No	1,064
70 75 55	77 17 28 28
	75



No. 21444.

No. Illin

insulating Conduit-(Confined)

HE COMPANY.

Terminal Junction Boxes for Single Tube System.

Two Wire System. Boses Inside-Length, 71 inches; width, 31 inches.

mufactured on the plans shown for the varies of

2500 Right Hand, for Brick Work or Terra Cotta,

depth 3 inches
Left Hand, for Brick Work or Terra Cotta,
depth 3 inches 12592 Left Hard, for Lath and Plaster Work, depth

34 Inches. Right Hand, for Lath and Plaster Work, depth 34 inches....

Porcelain Cut-Out for Above.

sacrwise specified, Outlets are made for 14 inch Conlast is

61 Two-Wire Feeder Terminal 3.59

.... 1 such Conduits for distributors.

Terminal Junction Boxes, Double Tube System.

Two Wire System.

of Boxes inside - Length, 8% inches; width, 3% inches. Left Hand, for Brick Work, depth 3 inches...... 6.5 Right Hand, for Brick Work, depth 3 inches..... 6.5 Left Hand, for Lath and Plaster Work, depth 32

6.7

34 Inches.....

ass include Nipples. aims specified, these Boxes are supplied with Nipples to Quadult; Mains, for ‡-inch Condult.

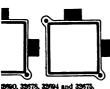
List Price Each

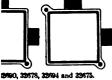


Iron Armored Insulating Conduit—(Continued.)

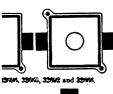
Feeder, Splicing, or "Pulling-in" Boxes for Single Tube System.

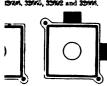
Unless otherwise specified in orders, Feeder Junction Boxes are furnished for $1\frac{1}{2}$ -inch Conduit,











2505, 32967, 32989 and 32988.

			Two	Wire Syst	em.			
Code Word.	List No.			•			List	Price.
Blover	32598	For	Brick o	Terra Cott	a, 2 Ot	itlet Nij		
Sluterer	32692	44		4	3	ω. ΄		4.75
Slateringly -	32696	**	4	4	2	4		4.10
Sheery	32690	•	4	4	3	4		4.75
Slateship	32694	*		44	2	4		4.10
Stupetrade	32698	u	•	u	3	44		

Nos. 32978, 32975, 32995, 32996, 32997, 32998 are for Lath and Plaster Work. For list prices of these add 50 cents to the above list. Dimensions inside, for Brick or Terra Cotta Work: Length, 64 inches; width, 64 inches; depth, 23 inches. Nipples are placed to allow for At of an inch for Plaster.

Dimensions inside, for Lath and Plaster Work: Length, 6‡ inches; width, 6‡ inches; depth, 3‡ inches. Nipples are placed to allow for ‡ of an inch for Lath and Plaster.

Covers to fit these Boxes are listed on separate page, but are not included

In ordering be careful to specify sizes of Conduit to be used, and if Cut-out will be required. Cut-outs for these Boxes are not carried in stock, but will be made to order at short notice, mounted on Marbleized Slate.

Intersection or Splicing Boxes.

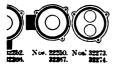
Diameter Inside, 3½ inches. Depth for Brick Work 1½ inches. Depth for Lath and Plaster 1½ inches. Thickness of Walls, ½ inch. This Box is not intended to be used with a Cut-out.

Price includes Nipples.

Code Word. List No.







				Each
Slavie	32252	3 Outlets	, 2 Side, 1 Bottom	. \$1.39
Slavonic	32273	2 "	2 Bottom	
Shirish	32240	2 "	2 Side	. 1-18
Sheishly	32242	2 "	2	1.18
Stetishness	32250	2 "	1 " 1 Bottom	
Slatiam	32266	3 Outlets	, 2 Side, 1 Bottom	1.49
Slavocracy	32274	2 "	2 Bottom	1.28
Slavonian	32260	2 "	2 Side	1.28
Stor	32265	2 "	2 "	. 1.28
Slay	32267	2 "	1 " 1 Bottom	1.28

Outlets are placed! $^{a}_{12}$ inch below rim of Box for Brick or Terra Cotta and 2 inch for Lath and Plaster Work.



2015	32164	32167.
No. agus		
32174	Nov. 32194. 32175	Nov. 32190.

Iron Armored Insulating Conduit-(Contin

Splicing or "Pulling-in" Boxes.

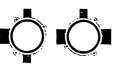
Double Tube System.

Dimensions for Brick or Turn Cotta: length,64 inches; widh,64 depth, 24 lackes. For Lath and Plaster: length, 64 inches; widh,44 depth, 34 inches,

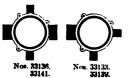
Code Word.	List No.	For I	brick or	Torra Ca	tte.	1
Stager	32196	Two win	e System	without	Corre	·
Sleaziness	32192	•		•	•	
Slowy	32098			•	•	
Sled	32172	•	•	-		***********
Sicidina	32194	*			-	
Slock	32196	-				
Slockly	32196		-		-	•••••
		For	Leth as	d Plaste	r.	
Simby	32165	Two-wire	System,	without (Cover	
Steckness	32166	•		•	•	
Steelstone	32167	•	•	-		
Sleep	32173	-	. •	•	4	•••
Sleeper	32174	•	•	4		***
Sleepful	32175	4				
Streptly	32178	-	4	"	4	•••••

Unless otherwise specified in orders, Feeder Junction Botes for 2174.
Tube System are furnished with Nipples.
Cut-outs for these Boxes are made only to order.

No. 33142 and 33143.



Nos. 33134. 33140.



Branch Circuit Junction Boxes.

Large Size—Complete with Nipples. Single Tube System.

For Brick or Terra Cotta.

Sleepiness	33132	3 (utle	s, 1 1	Main	. 2 1	Brane	:b		_					
Streping	33133	3	**	Ĺ		2	-	R. c							
Steepless	33134	3	4+	2	•	1	•					•	•••	•	•
Steepleady	33136	4	•	2	4	2						•	٠.	•	٠
Steepy	33142	1	44			1									
Sket	33144	8	44			1	•	3							
			For	Lat	h a	ad J	Plast	er.							
Sleetch	33138	3 0	utlet	4, 1 2	Main	, 2 I	Brane	ъ							
Slectiness	33139	3	4	1	4	2	*								
Sleety	33140	3		2	4	1						•	• •	• •	•
Strengill	33141	4	4	3	•	3	•	•••			•		•	•	•
Steetchand	33143	1	4			1	•		• •	٠.	•	•	•	•	• •
Streeters	33145	2	4			2	•	• • • •					• •	•••	
				_							•	•		٠.	٠.

Dimensions for Brick or Terra Cotta Work, Inside diameter, depth, 2† inches. For Lath and Plaster Work, Inside diameter, depth, 3 inches.

	D. P.	Porcelai	n Cu	t-Out Block	ks for Al	bove.
Nicid	7131	Round F	atter	n special bis	ding our	h
Sleigh	720 ł	. "	4	plain		
Sleighing	712	Square	#		•	•••••
Sleight	722		*	special		

List No.

32251 3 32258 3

Code Word

Slid Slidden

Slidder

Stherry

Slide Slidegrant List Price Each

.65

..... 1.39 Right 1.39

Branch Circuit Junction Boxes.

Single Tube System.

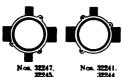
Medium Size-Complete wih Nipples.

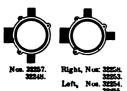
For Brick or Terra Cotta. WITHOUT COVER.

32244 3 Outlets, 2 Main, 1 Branch. 1.39
32247 4 " 2 " 1 " 1.64
32257 3 " 1 " 2 " 1.30

2







for the embedding of Conduit γ_a of an inch under the surface of plaster for Terra Cotta or Brick work, and $\frac{1}{2}$ of an inch for Lath and Plaster.

Slider	32254	3	4	ı	"	2	4	Left	1.39
Sliderest	32256	1	44			1	44		1.00
Slideralce	32249	2	4			2	. "		1.18
		F	or Lat	h i	and P	1a	ster W	ork.	
Stitter	32244	3	Outlets,	2	Main,	1	Branch		1.49
Slice	32245	4	44	2	44	2	44		1.74
Slicer	32248	3	4	1	4	2	*		1.49
Slonkan	32253	3	44	1	4	z	64	Right	1.49
Street	32255	3	"	1	44	Z	4	Left	1.49
Shut	32259	1	44			ι	24		1.10
Stabber	32075	2				2	4		1.28
Dimens	ions: For	Br	ick or T	er	ra Cot	la	Work,	inside diameter, 34 in	iches;

depth, 14 inches. For Lath and Plaster Work, inside diameter, 34 inches: depth, 12 inches.

The Threaded Outlets for both depth of Boxes are placed so as to allow

Porcelain Cut-Outs for Above. 7054 Double Pole Cut-outs for Two Branch Circuits. 7064 Double Pole for One Branch Circuit only.....

Branch Circuit Junction Boxes.

Single Tube System.

Small, Size -- Complete with Nipples.

For Brick or Terra Cotta Work.

WITHOUT COVERS

Shork	32134	3	Outlets,	z	Mains,	1	Branch		1.
Stol	32136	4	4	Z		2	"		1.
Slogan	32132	3	**	ı	٠,	Z	44		1.
Sloke	32133	3	**	1	**	2	**	Right	1.
Sloo	32137	t	•	ı	44	2	4	Left	1.
8lum	32046	1	44			1	**		
Bloom y	32048	1	*			2	4		١.

Iron Armored Insulating Conduit-(Continued) Branch Circuit Junction Bexes-(Continuel.)

> For Lath and Plaster.

Inside Dimensions for Brick and Terra Cotta Work length, 41 inches. width, 42 inches, depth, 23 inches.

Incide Dimensions for Lath and Plaster Work: length, 42 inches, width.

> Porcelain Cut-Out for Above. 7171 Complete with 6 Fuse Holders .

7164 Fitted with Binding Screws, no Fuse Holders

695) Fuse Holder, complete, extra heavy terminal,

690) Fuse Holder, complete, regular terminal, so fuse

4.65 4.65

6.15 6.13

6.15 6.15

7.00

.90

.20

Small Size--Complete with Nipples.-(Continued.) For Lath and Plaster Work. W AFE 1 -: : N. 61 7 . 3 . 70 32141 1.50 -1.30 5. 32138 3 Right 32139 8.00 1.30 32142 Side 32972 1 2 32074 1 and annua or serra Cotta Work, inside diameter, 22 inches; depth, limites. For Lath and Plaster Work, inside diameter 24 inches; depth, limites. Fie Beild in Torra Cieta Work, inside diameter, 22 inches; depth, if Fie Diagram of Outlets, see Branch Circuit Junction Boxes preceding Percelain Cut-Outs for Above. . These B was being of small diameter, do not admit of using a Double P > 0.11. In fig. m, we than one Branch Circuit. 710- Doble Pole for I Circuit, right or left or straight through 7074 Death Pole for I Circuit, especially for right or 16th transless -55 $N \sim .0006 \\ 2.00$ Branch Circuit Junction Boxes. Double Tube System. Complete with Nipples. For Brick or Terra Cotta. 100 ... 4.50 32390 4 O.25 (8, 2 Main, 2 Branch . . . 32392 1 2 4.50 6.00 6.00 6.00 6.00 32396 16 1. 16. 1. 32400 4 4 32398 e; -6 $\frac{N + 3256}{3259}$ 32402

85 45 - 64 32393 4

32399 6 32403 Ü

32395

44 in hes, depth, 3 inches.

8. .

N' ;

Steer

Stok

Sticking

Rlickness

No. 32400. 32401.

Nos. 32402. 32403.



Nos. 32046 and 32072.





No. 32075 and 32079.



Iron Armored Insulating Conduit-(Continued.)

Outlet Boxes.

With Fixture Support for Electric Only-Single Tube System.

	Small Size.
Code Word.	List No. List Price.
Storp	32046 Coutlet Box, 24 Inches diameter, 14 Inches deep, and Cover, No. 527
Stop	32072 Outlet Box, 21 inches diameter, and Cover, 524 1.40
	and Pluster add 8c. on 24-inch and 10c. on 34 inch. Lath and les are made 14 inches deep.

Porcelain Cut-Outs	for Above.	
Outlet or Tan Cut-out.	without leads	

		Lordenin ent. Onto tot Montes	
Slope Slopeness	710± 770±	Outlet or Tap Cut-out, without leads Double Pole Porcelain Cut-out, without leads	.40 .65
		Outlet Boxes. Large Size.	
Sloping Sloping	32246 32073	Outlet Box, 34-Inch diameter, and Cover, No. 528 Outlet Box, 34-Inch diameter, and Cover, No. 525	1.60
		Porcelain Cut-Outs for Above.	
Sloppingly	705	Double Pole Cut-Out for Two Branch Circuit Double Pole for One Branch Circuit only, right	.90
-		or left	.65
		Outlet Boxes.	

32075 Outlet Box, 24 inches diameter, with Cover.....
32079 Outlet Box, 34 inches diameter, with Cover..... The Box is made for Brick Work. For Lath and Plaster Work add 10 cents to the above list. The ordinary form of "Bug" Cut-out can be used in these Boxes.

Outlet Boxes.

Outlet Box, Cover and Fixture Support-For Electtric Only. Double Tube System.

Dimensions of Boxes inside-Length, 3‡ inches; width, 3‡ inches.

Slut	32478	Outlet Box for Brick or Terra Cotta Work, depth	
23000	35470	15 inches	2.15
Blite	32479	Outlet Box for Brick or Terra Cotta Work, depth	
		2 inches	2.25
Bloth	32480	Outlet Box for Lath and Plaster Work, depth 2	
		Inches	2.20
Shithful	32481	Outlet Box for Lath and Plaster Work, depth 24	
		inches	2.30

The Fisture Support is threaded to receive a ‡ inch (mide) Brass Lumisting Joint. When necessary to fuse in this Bot the regular Bug Cut-out ran be employed. Covers are not included in above prices. Price of Cover



No. 32496.

Iron Armored Insulating Conduit-(Continued)

Outlet Boxes.

Outlet Box, Cover and Fixture Support-For Electric Only. (Continued.)

Double Tube System.

Dimer	nsions of	Boxes inside-Length, 31 inches, with, 71 was
Code Word.	Last No	Las Pois
Smarten	32496	Outlet Box for Brick or Terra Cotta W-rk,depth
Smartle	32497	Outlet Box for Brick or Terra Cotta Work, depth 2 inches 28
Smertly	32498	Outlet Box for Lath and Plaster Work, depth 2 inches
Smartness	32499	Outlet Box for Lath and Plaster Work, depth 21 inches

Extra Outlets for these Boxes will be supplied to order at the

Covers are not included in above prices. Price of Cover, 40 eta. Labor otherwise specified in orders, Cover is supplied with Threaded Nipple for 4 inch (Brass) Insulating Joint or Coupling

Porcelain Cut-Outs for Above.

No. 7704, Porcelain Cut-Out, designed for a Celling Pendant, can be used in a side Outlet Box for Portable Fixture or Pan Motor. The Cat-Outlet Box for Portable Fixture or Pan Motor. The Cat-Outlet made in two parts. The base is supplied with heavy terminals, forward to contact pieces, into which are placed the Binding Screws. Fuse Lamb arranged on the Porcelain plug, which can be removed when Iming. Outlets are sliding, connections quickly and easily made, and the Cat-out a stapted to all 24-inch boxes. The price does not include Box.

Smartness 770; Double Pole Porcelain Cut-out, without leads ... 7101 Outlet or Tap Cut-out

Combination Gas and Electric Branch Circuit Box and Cut-Out.

Single Tube System.

This Box is designed especially for Hotels, Office Buildings, Ap This liou is designed especially for Hotels, Office Buildings, Apartmenthouses and other Pire-proof Buildings, where the Feeders are run between the Term Cotta and floor boards, direct from the Cut-out Cabinets or Justion Boxes, to a center of distribution. This center may be located at the largest or most convenient electrolicr of a suite or section of ranns, and the Box attached thereto. It will then supply the electrolicr and two bracket which are run on ceiling for side lights. The flox, being but five inches in diameter, admits the use of an ordinary size fature shell.

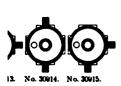
Cutout No. 715; has Binding Posts for supply, that will enery Casines or up to No. 4 B, & S. Gauge. The Branch Terminals have been tessed up to fifteen amperes.

ors up to No. 4 B. & S. Gauge. The Branch Terminate have been isseed to fifteen amperes.

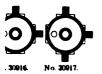
Hover ten lights are required for an electrolier, we supply Parell Fuse Holders No. 6264, having double the carrying capacity and it ary the Fuse Terminals. The Cut out will fuse two Branch Circuits, which as be taken out at either side, or at right angles; at the same time fusing future. Unless otherwise specified in order, we supply Puse Holder Na. 68 Price Includes Nipples.

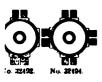


Iron Box No. 30017



٠







Iron Armored Insulating Conduit—(Continued.)

Combination Clas and Electric Branch Circuit Box and Cut-out Single Tube System.—(Continued.)

Iron Box- Lined.

Diameter, 5½ inches; depth, 2½ inches. Diameter, Gas Outlet, 1½ inches. Diameter, Electric Outlet (inside) 1½ inches.

Code Word.	List No.																					1	Lis	t Price
Sigbuota	30913	1	Main,	10	Jutlet	ι																		
Slyly	30914	1	44	2	4	٠.												٠.	٠.					2.2
Slynoss	30915	1		2	4																			2.2
Smack	30916	1	4	2	44	٠.																		2.2
Smacking	30917	1	*	3	44							٠.												2.7
Other si	zes of Ou	ıtle	ets and	co	mbla	nti	io	ni	9 1	m	æ	de	t	0	or	de	er.							
			P	,on	celais	• (Cı	st	-	0	u	ı.												
Diamete	r. 48 inch	es.	. Hei	ghi	L wit	h A	۸d	ı,	uı	вŁ	al	ы		F١	154	PA.	. 1	ł	in	ĸ.	he	8.		

Combination Gas and Electric Branch Circuit Box and Cut-Out.

Branch Junction Box. - Double Tube System.

Combination Cas and Electric Outlet Box with Cut-Out.

Single Tube System.

This Box is designed to be used for side Outlets on walls or partitions. The diameter being small, a 4-inch Fixture Shell will cover it. Cover admits of ready access to Box, and when in place it effectually closes the Outlet against moisture. Cut out No. 7184 is designed to fuse two Branch Circuits, is fitted with the adjustable Fuse Holders, or will be supplied with Binding Screws only, so that the ordinary copper tipped fuse may be employed.

If it is desired to fuse the fixture at which the box is located, the cover can be omitted, the ends of conduit scaled with compound, and the work this made tight.

Specify in orders the size for Mains and Branches.

Iron Box and Cover.

Smaltine	30911	As illustrated. Dimensions. Diameter, 3½ inches depth, 1½ inches.	1.60
Smaragdini	30912	Plain Iron Cover, Insulated Lining	.25
		Porcelain Cut-Out.	
Smaingdite	718+	Complete with four Adjustable Safety Fuses	1.65
Sinart	7194	Cut Out, without Adjustable Fuses, but having Binding Screws for Copper tip Fuses	.85

Iron Armored Insulating Conduit—(Continued.)

Combination Gas and Electric Outlet Box with Cut-Out. —(Continued.)

Double Tube System.

		Iron Box and Cover.
Code Word.	List No.	List Price Fach
Smasker	30920	Diameter, 34 inches; depth, 14 inches. With six Nipples \$2.25
Smatch	30912	Plain Iron Cover, Iusulated Lining25
		Porcelain Cut-Out.
Smatter	718ŧ	Complete, with four Adjustable Safety Puses. 1.65
Smatterer	71 91	Cut-out, without Adjustable Puses, but having
		Binding Screws for Copper-tipped Puses

Combination Gas and Electric Ceiling Outlet and Branch Circuit Boxes.

Single Tube Iron-Double Tube Brass.

The Box is of Iron, Insulated and designed to be placed at a chandelier outlet, and fed from the floor above by a single tube of Iron Armored Conduit 3 of an inch inside diameter or less. Owing to the position and necessity of sinking the Box into the Terra Cotta ceiling, no threaded joint can be made, but an iron sleeve one inch in height is provided, into which the Conduit is inserted. The Center or Gas Outlet will admit the use of § inch (inside diameter) gas pipe. The short Iron Nipples are threaded for § inch coupling, on to which can be screwed combination coupling for $\frac{\pi}{10}$ or § inch Brass Armored Connuit.

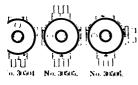
Ontside Dimensions - Diameter, 5g inches; depth, 2g inches. Diameter Gas Outlet, 1g inches. Diameter Electric Outlet (inside), 1g inches. Diameter Porcelain Cut out, 4g inches; Height, with Adjustable Fuses, 1g inches.

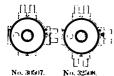
14 inches.									
Smattering	30504	1	Main	, 1	Electroller	and 2	Brat	nches	2.65
Smar	30505	1	4	1	4	4	•	•	2.75
Sneardab	30506	1	**	1	4	4	•	·	2.75
Smeary	30507	1	*	1	•	4	٠		2.75
Smooth	30508	1	4	1	*	6	•	••••••	3.45

Combination Gas and Electric Outlet Box and Cut-Out.

Double Tube Iron - Double Tube Brass.

For Direct Current Only.

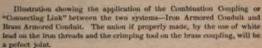




Iron Armored Insulating Conduit—(Continued.)

Combination System.

Using Both Iron and Brass Armored Conduit.



a perfect joint.

The Illustration shows a Cross Section of Iron Armored Insulating Conduit and Brass Armored Conduit; the union being properly made. Both

ends of insulation abut.

The demand for this system has arisen principally from its flexibility; also from the fact that the diameter of the Brass Armored Conduit is less than that of the Iron Armored. In modern the proof structures, the thickness of plaster ordinarily used on walls will always cover the \(\frac{1}_{2}\)-the he Brass Conduit, and usually the \(\frac{1}_{2}\)-inch, without having to channel the walls. This channeling being a considerable item in the general expense of the installation, the labor thus saved is an important consideration where the specifications do not provide for "Furring" or a sufficient thickness of plaster to cover the Iron Armored Conduit.

Combination Couplings are necessary in connecting the Brass Armored

Combination Couplings are necessary in connecting the Brass Armored Double Tube System to the Single Tube Iron System, at Junction Boxes, Cut-out Cabinets, etc., and when the Feeders or Risers are run in separate Brass Armored Conduits on account of their size, or to avoid induction when the Alternating System is employed.

Combination Coupling.

Code Word.	List No.				L	ist Price.
Saut	2051	#-inch	Iron Nipple to	2-loch	Brass Coupling	\$0.10
Same	2061	# Inch		#-Inch		.12
Same	2074	1-Inch		2-luch	44	.14
Summe	208+	1-inch	H	1 lach	-4	.17
Saure	2091	11-lach		Il inch		.21
Smerer	2101	14-inch		I inch	-	.27



No. 205). nation Coupling





No. 32641.



Angle and Corner Insulating Boxes.

Single Tube System.

For Splicing or "Pulling-in" Conductors.

Saurt	32640	Iron Insulated	Box, with	Two Ni	pples	\$1.85
Banter	32541	Iron Insulated	Box, "	-	********	1.85
Bunnt	32642	Iron Insulated	Box, "	-		1.85

Above prices include Plain Iron Covers and Serves fitted; also Nipples. Specify size of Nipples.

Iron Armored Insulating Conduit—(Continued)

Angle and Corner Insulating Boxes-(Continued.)

Single Tube System—(Continued.)

No. 33540, inside, each angle, length, 3 lns.; width, 2\frac{1}{2} ins.; depth, 1\frac{1}{2} ins.

No. 33542, " " " 3 " " 2\frac{1}{2} " " 1\frac{1}{2} "

No. 33541, " " " 3\frac{1}{4}" " 2\frac{1}{2}" " 1\frac{1}{2}" a 3 a a 5 a a 11 a a 3 a a 5 a a 11 a adam' a ma' a mirit' 21 mg' (aches' 11 m

The above Boxes are made for Brick or Terra Cotta Work, the Nipples being placed & of an inch from rim of Box, to allow for placter to cort Conduit. Covers are made of thin iron, and extend & of an inch over time! Buxes.

Double Tube System--Double Iron.

For Splicing or "Pulling-in" Conductors.

Code Word	Let No							ι.	-t Print Fail
Sounty	32643	Iron	Insulated	Boxes	, with	four	Nipples		\$2.25
Same	32644	-	4	•	•	-	4		2.25
Smothall	32645	4	•	•	-	4	4		2.25
The als	ne prices	- inclu	de Plain	Iron (over	and	News	fitted.	The
Covers exte	ad 🛊 incl	over	the rim o	Box.					

For Boxes with 4 inch Nipples, add 40 cents to above 18st prices for each Napple.

Dimensions.

No. 32543 Inside each angle, length, 3 ins.; width, 2‡ ins.; depth, 1‡ ins. Same style as No. 32642. No. 32514 Inside each angle, length, 3 ins.; width, 24 ins.; depth, 14 ins.

Same style as No. 32940.
No. 32945 | Inside each angle, length, 3½ ins.; width, 2½ ins.; depth, 1½ ha. Same style as No. 32641.

These Boxes are made for Brick or Terra Cotta work, the Nipples being placed A of an inch from rim of Box to allow plaster to cover Conduit.

Single Tube Iron Double Tube Brass.

For Direct or Alternating Currents.

Swording	30646	1ron Insulated Box, with one Iron and two Com- bination Couplings fitted. Same style as No. 33:12	2.25
Sweeterp	30647	Iron insulated Box, with one Iron and two Com- bination Couplings fitted. Same style as No.	

32940 Shoulderft 30648 from Insulated Box, with one from and two Combination Couplings fitted. Same style as No. 2.25 39611 2.25

The above prices include plain iron covers and screws fitted. If A luch brain Conduit is to be used please state so in ordering.

Iron Armored Insulating Conduit—(Continued.)

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Angle and Corner Insulating Boxes-(Continued.)

	Doub	le Tube Iron—Double Tube Brass.	
Code Word.	List No		Price.
8nmedrop	30649	Iron Insulated Box, with two Iron and two Com- bination Couplings fitted. Same style as No.	
		32642	2.45
8nnefluke	30650	fron Insulated Box, with two Iron and two Com- bination Couplings fitted. Same as style No.	
Sno vá rk	3065 i	32840	2.45
U	33331	bination Couplings fitted, Same style as No. 32841	2.45

The above prices include Iron Covers and screws fitted. If $f_{\rm s}$ brass Conduit is to be used, please state so in ordering. The above Boxes are made for Brick and Terra Catta. Work, Nipples being placed & inch from Rim of Box.

Switch Box for Cutter and Other Flush Switches.

For Single Tube System.

The Box, as illustrated, is designed for a Single Pole Flush Switch. We manufacture these Boxes for all makes of Flush Switches, either Single Pole, Double Pole and for Three or Four Wires.

Where the installation is to be made before the partition walls are erect ed, we place the Outlets near the rear edge, on top, to clear the front wall of the terra cotta brick.

For Double Tube System-Iron Armored.

...... 1.25

For Double Tube System-Brass Armored.

Samestorm 30987 Gang Switch Boxes. Prices on application.

Outlets are placed $\frac{1}{12}$ of an inch from rim for Brick or Terra Cotta work and $\frac{3}{4}$ of an inch for Lath and Plaster. Switches extra.



51.



Iron Armored Insulating Conduit-(Continued.)

Combination Gas and Electric Side Outlet Box.

Single Tube System

Code Word	Lint No.				Last Prot
Suncehite	30681	1 Outlet	for A-inc	h Conduit	SI.38
Sung					

Unless otherwise specified all Boxes will be tapped for I lack go jus-

These Boxes are designed to be used for side outlets on walt or prititions. The diameter being small, a 34-inch fixture shell will correten. The hole on back of Box is tapped to receive a fi-inch gas pipe. The bread on gas pipe must be cut back so that the pipe will project through the in a sufficient length to allow an insulating joint to be accewed on. All home

of this type are porcelain lined.

Outlets are placed so as to leave A of an inch for the hard faith of will, between the outlets and front rim of Box for brick and term cotta web, as i of an inch for lath and plaster.

Outlet or Switch Box.

Double Tube System Complete with Nipples.

Code Word	List No.						Les Port
Sanb	32404	Box f	or Terra Cotta or	Brick	work.	2 miles	
Sughnon	32405	-	4	-	•	4 -	1.70
Stratepost	32406	•		-	*	4 -	1 70
Sundye	32407	4	lath and Plaste	г	•	2 -	1.25
Nauf	32408		4		•	4 -	1.80
Sunglas	32409	4	•		•	4 -	1.99

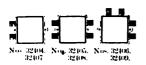
Inside dimensions for Brick or Terra Cotta: Length 24 in, width 24 in. depth 19 in.

Inside dimensions for Lath and Plaster: Length 24 in.; width 24 in. depth 24 in.

Outlets are placed prof an inch from rim of Box for Brick and Term Cotta work and \$ of an inch for Lath and Plaster. This Box, being but 25 inches square, is especially adapted for use oith



No 32404 and 32407.





No. 21515.



No. 21528.



No. 21534.



No. BIRE



No. 21530.



1 -

No. 21540.

Interior Conduit-(Continued.)

Iron Armored Conduit- (Continued.)

Covers for Iron Armored Branch Junction or Outlet Boxes.

Caste Word	List No										Price.
Serfold	21515	537,	Brou	zed P	olish	nd th	versi	for 21 in.	Round		
Scagliola	21516	541,	Nick	celed	*		*	21	-	-	-30
Scalable	21517	538,	Bron	med	**		44.	祖	*	44	-40
Soulade	21518	546,	Nick	reled	44		44	He.		44	.35
Scald	21519	547,	Bron	xed	44		44	21	*	46	.55
Scaldie	21520	548,	Nick	celed	-		4	21	**	**	.50
Scale	21521	549,	Bron	bess	46.		46.	31	*	46	.60
Soulene	21522	551,	Nick	eled	- 44		**	312	**	***	.55
Scalinear	21523	539,	Bron	bean	44.		180	48		44	-60
South	21524	543,	Nick	teled			**	44	44.	- 10	.55
Scuttion	21525	521,	Plal	a Cove	or for	24 h	ach H	lound Be	ox	****	.15
Scallep	21526	522,		**	48	31			400	-	.20
Scattopod.	21527	536,	14	84	14	48	4				-30
Scalp	21528							tale The			
		li	nch I	Round	Box			*** ***			-55
Scalpel	21529							iale The			
		li	ach F	Round	Box						-60
Scaly	21530	527,	Cove	e will	NAS	ple,	Mule.	Thread,	for 24	inch	
		-B	tound	Box				-			.50
Seamble	21531	528,	Cove	r with	. Ni	ple,	Male	Thread,	for 31	Inch	
		B	found	Box.						andre -	-60
Seambler	21532	530,	Cove	e with	Ru	bber l	Bushi	ng for 2	l In. R	bano	
		B	lok					Acres		Course.	-35
Sommony	21533	531,	Cove	r with	Rul	bber I	dushi	ng for 3	l In. R	bound	
		B	108.50	teria.		Separa					-40
Samp	21534		Cove	e for .	Rece	ptack	for !	1 lach	Round	Box.	.20
Scumper	21535	534,	- 11	- 14				St ++		*	-25
Sketch	24057	912,	Plah	Iron	Covi	er, in	nulute	ed lining	t		.25

Tools for Iron Armored Conduit.

Comstock Pipe Cutters.

Seaudalies Seaudalies Seaudalinus	21538	E	**	2 · 24 ·	•	20		24	10	 		L	60
	-	-											

Butt Reamer.

This Reamer is fitted for use with ordinary brace. It should be used after a cut has been made to remove the "burr" from Iron Armor and to true up the end of Conduit. This operation should be performed before the thread is cut.

Soundalously 21540 Size of Conduit # to 14 Inch 1.50

t -- 4 -- 3

List No.

Interior Conduit - (Continued.)

Brass Armored Conduit.

For Direct and Alternating Currents.

This is plain conduit with a brass armor or covering drawn upon it. We furnish this tube for better protec-tion against mechanical injury and the destructive action of the alkalies of cement, where used under tile floris or in like exposed places. When polished it will be found unequaled for surface work in the matter of finish and accessibility.

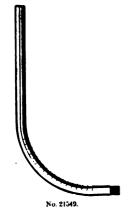
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No. 114 Brass Armored Elbow.

| Theoretics | 3881 | The line is a line in the image | Theoretics | 3882 | Theoretics | 3882 | Theoretics | 3883 | Theoretics | 3884 | Theoretics | 3884 | Theoretics | 3885 | Theoretics | 3886 | Theoretics | 3887 | Theoretics | 3887 | Theoretics | 3888 | Theoretics

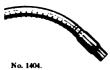
		Inside Diameter inches.	Outside Diameter Inches.	Radius Inches.	Length over all Inches.	Per 🍽 Dieses
Seculent	21541	*	. 495	3	42	6.60
Sunue	21542	4	.625	4	54	8.00
Soundrial	21543	•	. 730	44	6	10.20
Some	21544	ı	.792	4#	ef	11.80
Sountily	21545	ŧ	1,000	6	7#	15-60
Scantiness	21546	1	1.230	•	11+	27.85
Scantling	21547	11	1.540	ю	125	38.35
Sountly	21548	11	1.875	12	15į	57.10



No. 116 Brass Armored Long Elbow.

Inside Outside Length over all Per 100 inches. Inches. inches. Inches. Puess

contness	21549	٨	.490	31	172	16.00
carty	21550	ì	.625	4	172	17.75
	21551		.730	4	18	18.75
ajn meal	21552	ĺ	:792	44	14	20.25
erpula	21553	i	1.000	6	19	26-25
rapular	21554	1	1.230	84	23	41.00
capalary	21555	11	1.540	94	*	55.00



Interior Conduit—(Continued.)

Brass Armored Conduit-(Continued.)

No. 1141/2 Brass Covered Short Elbow, with Attached Coupling.

Code Word.	List No.							1	Jst Price. Per 100.
Immoderate	1404	14	inch,	inside	diameter	·			\$ 18.70
Immodest	1405	ì	4	4					21.50
Immodestly	1406	i		4	4				25.60
Immobile	1407	ì	4	•			.		30.00
I mmobiled	1408	1		4					43.00
Immolating	1409	1	4	4	4				63.00

No. 1161/2 Brass Covered Long Elbow, with Attached Couplings.

Immovibly	1417	- 14	inch,	inside	diamet	er	26.00
Immure	1418	ì	4	4	*		 28.75
Immuring	1419		4	4	•		 31.75
Impeir	1420		4	4	•		36.25
Impaired	1421	•	**	4	44		 49.25
Impuirer	1422	1	*	4	4		71.00

No. 1171/2 Brass Covered S Elbow, with Attached Couplings.

Impartment	1430	ě.	inch,	inside	diamete	r ,	 25.75
Impeach	1431	8	4	"	4		 28.25
Imprached	1432	à	44	u	u		 33.00
Impencher	1433	i	•	4			38.50
Impaching	1434	1	*	4	*		 50.50
Impreakment	1435	1	4	**	•		64.00

No. 1151/4 Brass Covered T, with Attached Couplings.

Igniting	1443	M.cins	. 3	inch,	branch	ľ.	inch	90.75
Ignition	1444	**	1	u		*	**	95.00
Lynoble	1445	**	â		•	×	**	100.00
I Ubred	1446		8	**	**	ŧ	٠	114.00
Illicit	1447	4	ŧ		**	Ř		132.00
<i>[Uicitly</i>	1448		1	4		ŧ	4	167.00



No. 21563.

No. 21349.

Interior Conduit—(Continued.)

Brass Armored Conduit--(Continued.)

No. 117 Brass Armored S Elbows.

Cude Word.	List No.	Inside Diameter inches.	Outside Diameter inches.	Offset	Length over all taches	ι
Sear	21556	٨	. 495	4	9	
Sourmel	21557	ï	.೯೬೩	4	104	
Scarring	21558	4	. 730	4	11	
Source	21559	ı	. 792	4	11	
Scarcely	21560	3	1.000	4	11}	
Scurrences	21561	1	1.230	4	16	
Sourcity	21562	11	1.540	4	17	

- - - .

Terminal or Outlet Elbows.

These Elbows are made with a sharp bend and especially adapted for Fixture Outlets. These Elbare trimmed back § of an inch; this trimming will done without extra charge when so ordered, or can readily accomplished by use of Universal Trimmer. The radii of curves in these Elbows are much smantan No. 21641, and they will be found better adaptor use at outlet.

No. 118 For Brick and Tile Work.

		Diameter uiches.	Offset	Length
Scare	21563	ŧ	11	54
Searceone	21564	14	1)	52
Searf	21565	· į	1 }	7
Souted	21566	4	13	fig.
Scarjing	21567	è	2	y T
Searfakin	21568	1	51	10}
	4	No. 119 Fo	r Lath and I	Plaster.
		1), smatur	Office	Longth

		Diameter in hes	Offset	Length
Scarifier	21569	ł	3	53
Scarify	21570	Á	3	24
Scarlatina	21571	ï	3	7
Mearlet	21572	i	34	~∤
Scarp	21573	4	34	y
South	21574		41	104

Interior Conduit.—(Continucd.)

Brass Armored Conduit -- (Continued.)

Special Elbows.

No. 511.

 3
Radius o

Code Word	List No	Diameter Inches.	Radius of Bend. Inches	Offset. Inches.	List Price. Per 100
Southe	21575	**	3	81	\$13.20
Southful	21576	Ť	3	9	16.00
Scathlers	21577	i	4	114	20.40
Scatter	21578		4	12	23.60
Scattered	21579		5	14	31.20
Scattering	21580	1	7	21	55.70
0	01501	• •	•	0.1	64 70

No. 518.

		Inches	Inches	Inches	
Scene	21582	٨	3	74	13.20
Sceneny	21583		3	8	16.00
Scenic	21584	4	4	104	20.40
Scenical	21585		4	11	23.60
Scenographic	21586	ŧ	5	124	31.20
Scenogruphy	21587	1	7	20	55.70
Seent	21588	14	9	23	64.70

List for Additional Length of Straight Run.

		Diameter. Inches.													Per	r o
Scentless	21589	*														٠.
Scepter	21590			 				 								٠.
Scrptered	21591	•													 •	
Sceptic	21592	i		 												٠.
Schodule	21593	1								 						
Schemation	21594	1						 	,							
Schematist	21595	14														

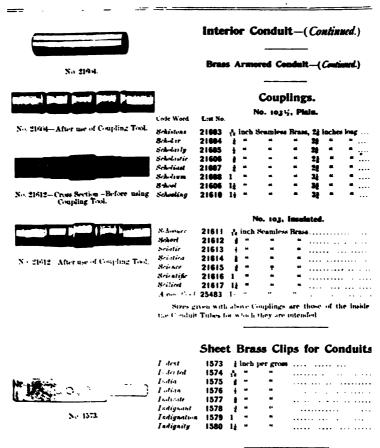
No 21342.

No. 2157ü.

Return Elbows.

No. 5

		inches.	Inches	Inches	
Scheme	21596	۸	3	6	13.20
Schemer	21597	ı	4	8	16.00
Schemist	21598	4	44	9	20.40
Schiom	21599		5	10	23.60
Behirmatic	21600	ŧ	6	12	31.20
Schiol	21601	1	7	15	55.70
Schitope	21602	13	v	22	76.70



Twisted Wire Clips for Conduits.

						_				
					No	1581.				
Lauret										
Zadirotem	1582	- B 7	-	-		1 "	4	"		
Wer	ecommo	nd for nor wit	h these Wir	e Clip	Flat F	lead N	ails, whic	h we will fo	uraish at the f	ollowi
									. 	
		14			• •••	• • • •	• • • • • •	٠		•••••

.38

.38

.38

.60

.60

.60

Interior Conduit—(Continued).

1	Branch	Circ	uit		-		Cover		cs l	-iain	and
	Code Word.	List No.		U	•	133	COVCI	cu.			List Price
	[Uiterate	1449	No.	46		loch	branches,	plain.	each		
	[Ujudged	1450		46.	_		••	44			
	Illogical	1451		46.	•		••	brass		, cach	
No. 1449.	Illude	1,452		46,	•		••		••	•• .	50
=											
	Image	1453	No.	40,	ł	inch	branches,	plain,	each	• • • • • • •	. .3 :
	Imag ed	1454		40			••	•		• • • • • • • •	3:
	Imbecile	1455	••	40	ŧ	••	••	••	٠٠ ٠٠		3:
	Imberility	1456	••	40	ŧ	••		brass	covered	l, each	5
	Imbed	1457	••	40		••	••	••	••	٠٠	5
	Im bedded	1458	••	40	. 1	••	••	"	••	٠٠	5
No. 1453.											
No. 1453.	fortes title o	1450	N.	40				-1-1			•
No. 1453.	Imbedding	1459			-		branches	. plain			
No. 1453.	Imbiber	1460	••	42	. į			•	٠٠		. .3
No. 1453.	Imbiber I mbibi ng	1460 1461		42 42	. į						3 3
No. 1433.	Imbiber Imbibing Imbitter	1460 1461 1462	 	42 42 42	. 1			brass	covere	d, each	3 3 5
No. 1433.	Imbiber Imbibing Imbitter Imbittering	1460 1461 1462 1463		42 42 42 42			 	brass	covere	d, each	3 5 5
No. 1433.	Imbiber Imbibing Imbitter	1460 1461 1462		42 42 42 42				brass	covere	d, each	3 3 5
	Imbiber Imbibing Imbitter Imbittering	1460 1461 1462 1463		42 42 42 42			 	brass	covere	d, each	3 5 5
	Imbiber Imbibing Imbilter Imbiltering Imbiltered	1460 1461 1462 1463 1464		42 42 42 42				brass	covered	d, each	3 5 5 5
	Imbiber Imbibing Imbitter Imbittering	1460 1461 1462 1463 1464	 	42 42 42 42 42		inch	 	brass	covered	d, each	3 5 5 5
	Imbiber Imbibing Imbitter Imbittering Imbittered Imbittered Imbody Imboom	1460 1461 1462 1463 1464	 	42 42 42 42 42 42		 	branches,	brass	covered	d, each.	3 5 5 5
	Imbiber Imbibing Imbitter Imbittering Imbittered Imbittered Imbody Imbowm Imbound	1460 1461 1462 1463 1464 1465 1466 1467	 	42 42 42 42 42 43		 	branches	brass	covered	d, each	3 5 5 5 3
	Imbiber Imbibing Imbitter Imbittering Imbittered Imbittered Imbody Imboom	1460 1461 1462 1463 1464		42 42 42 42 42 43		inch	branches	brass	covered	d, each.	3 5 5 5 3 3 3

Imbowment

Imboz

Imitable

Imitate

Initation

Imitating

No. 1471

Interior Conduit-(Continued).



N. 1477



In



N (48-Th), Outlets



N : 1489-F in Origins



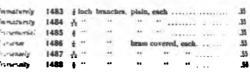
No. 1195 For Oatles,



No 1301 - Six Outlets.

Branch	Circuit	Junction	Boxes-Plain	and
	1	Brass Cove	red.	

Later Dick	1477	.90.	47, 8	moch	DIRECTOR'S.	plain,	esch	Con and	79.49
I mark -	1478	**	49, 6	198	**	**	** ***		,40
Internation	1479	44	49. 4	*-	Le				.49
Imma nacie	1480	*4	49, 4	40	**	bruss	covered.	each	.65
Invature.	1481		49, +				*4		.65
Immerored	1482		49. 6	**	146	**	44	м	.65



Imperate	1489	inch }	branches.	ونعام	esch	· · • •	 	
Ing analy	1490	٠. ·	**	••	•• .			
7 344 1	1491	ŧ	••	••				
Section 1	1492	į ·		brass	covered	i, each		
l	1493	Α.	•	••	••	••		
Location	1494	i	••	••	••	••		

Lightcative	1495	inch }	branches,	plain,	each		 .44
Legicit	1496	₹ ··	••	••	·•	,	 .41
I justing	1497	ŧ		••	••		.41
I plunge	1498	1 .	•	brass	covered.	(-ach	.60
I_{-PN}	1499	14		**	••	•• .	 .64
In vira	1500		••		••		.64

is obet	1501	l inch	branches,	piam.	cecp				•••	.4
gramme.	1502	1.	••	••	••					.4
reje wood	1503	ŧ.	••	•	••			٠.		.4
40.00	1504	į ··		brava	cover	wi.	each			6
grid.	1505	6.1	••	•	••					•
ngs litely	1506	4	••	••			••			•

.10

.15

Interior Conduit-(Continued).



No. 1507-Eight Outlets.



Dranen	Circuit	June	HOI	Doxes-Pla	am and
See and	1	Brass	Cove	red.	11.760

Empolitio Impoliticly 1508 4 " .50 1509 # " Import .50 1510 ± ' 1511 ÷ " 1512 ± " bruss covered, each..... Importable -70



No. 1515-Two Outlets.

ty	1513	inch ;	branches.	plain,	each		 		.33
×70	1514	4"	**	91	**		 		.33
	1515	4 "	44	**			 		.33
	1516	2 "		brass	covered.	eacl	 	-41	.55
	1517	& "	**				1100		.55
	1518	1 "		99	16	-11	 		.55

Metal Covers for Branch Boxes.



Fancy Cover, With Rubber Bushing.

Killing

Kiln

Kitt Kimbo Kindle

Kindlier

Kindliest

Kindliness

Kindling

Kindness

Ringhird

Kingeraft



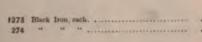




63	Dipped brass,	each		ric.			000		
66	**	44							

.20
,25
.25
.35

1275 Polished Brass, esch..... 1276 .20 ,25 1277 .30 1278 1279 .30 1280 .40



.11





Fig. L.



No. 21626.



No. 21028.





No. 21633



No. 21632.





No. 21605.

Interior Conduit-(Continued.)

Polished Brass Armored Conduit.

For Exposed Surface Work.

For this purpose the regular Brass Armored Coodsit Elbows and Fittings are highly polished and coated with a tine quality of lacquer. The Conduit can be held directly on the surface of the walls by polished brass ellips. This class of work has been largely used in buildings that were not originally wired for electric light, and prosents a very next appearance.

Code Word.	List No.					Lin Prin.
Sciniter	21618	& luch	Inside	diame	ter.	
Selmitar	21619	2 "	-	-	*****	
Scintillant	21620	4 -	M	44.		114
Scintillate	21621	2 M		-		12.85
Sciolism	21622	2 "	100	44		22.00
Seion	21623	1 "	- 16	46		26.22
Seirrhan	21624	12 "	A	46	STATISTIC STREET,	24.55
Seinsion	21625	14 "	*	46		

Sockets and Receptacles for Conduit Branch Boxes,

Figure 1 shows the complete Socket and Receptacle inclosed in Branch Box, in which it is held in position by the Brass Cover, No. 21628, and the Rubber Server Rug, No. 21632, it be Dummy Plug, No. 21633, of wood or hard rubber is also shown. The whole is arranged so that se part projects beyond the cover itself or its edge. This has been done with special reference to the use of the device as a Floor Receptacle, and is an advantage in any place where it may be used.

	1,65	
21626 Socket with porcelain bas	e locinding col-mt75	
21627 Receptacle with porcelain	base without cur-out	
21628 Cover for No. 21626 and 2	1627, brass, plain 45	
21629 " " 21626 " 2	1627, " polished25	
21630 Dummy plug to protect or	intacts when Socket or	
Receptacle is not in use	wood	
21631 Dummy plug, made of he	ed rubber	
21632 Hard rubber screw ring for	or Nos. 21626 and 21627 16	

Attachment Plug and Receptacle.

Scorbatic 21633 Receptacle, including cover to fit Braseh
Boxes, polished brase
Score 21635 Attaching plug, hard rabber

Interior Conduit—(Continued.)

Plain Conduit.

Since the introduction of Armored Conduits there has been an increased demand for the plain conduit in making installations for electric bells, telephones, telegraph, district measurings and other sytems employing low ten sion currents.

son currents.

All tubes and elbows are cut squarely, thoroughly reamed and tested for obstrictive matter by passing a test line through them, thus reducing labor of installation and waste material to a minimum.



Code Word	List No		I	114	diameter		Per 100 Ft
Condemn	39/1	ŧ	men,	Tilbite in.	Giameter,		1 \$2.25
Condemner	3972	٨		"	•	-	1 2.25
Condemning	3973	•	-	-	-		1 2.75
Condensation	3974			"		-	1 3.75
Condenante	3975	1	•	-	-	*	1 4.25
Condense	3976	1	4	•	•	*	1 5.25
Condensed	3977	11	•	-	•	~	1. , 8.00
Condescend	3978	14		•	•	**	1 12 50
Condiment	3979	2	*	-	-	-	1 20.00
Condite	3980	2	-	•	•		1 32.00

 $\frac{1}{2}$ inch size in six feet lengths, all other size in ten foot lengths.



No. 110, Standard Short Elbow.

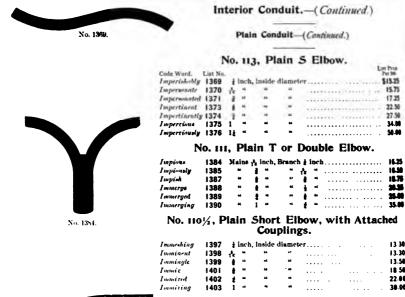
						Fee 140,
[uporting	1338	ŧ	ire b	inede	diameters	5 50
Impul	1339	ŧ,	-	•	•	6 50
Impeded	1340		-	-	•	5 60
Imputing	1342		-	•		/ 64
Impeditive	1343	ż	•	•	•	19.00
Ingel	1344	1	-	-	•	1 4 44
Impelled	1345	1#	. 4	•	•	76 00
I world at	1346	1		•	••	47.00

Larger boses Formula et to Carner



No. 112, Plain Long Elliow.

I mjore red	1354	ŧ	104.1	1800.194	Magnetie '4 f	14 44
Imperieg	1366	1.	•	•		16. 64
Lugarerptsbir	1366	,	•			1/ //
I amport of the Comme	1356		•	••		19 /4
I was sortly	1360	•	•	r		11 14
I was of ortained	1360	1	•		*	14 44
I way of reads	1361	14	-	•	•	41 14



Imputible Importing

No. 1110

13.30 13.50 18.50

17.25

22.50

27.50

No. 1121/2, Plain Long Elbow, with Attached Couplings.

} inch, inside diameter Immobilion 1410 Immodition 1410 ‡ inch Immoral 1411 † ** Immorality 1412 † ** Immortality 1414 † ** Immortalize 1415 † ** Immorable 1416 † ** 24.00 25.73 38.00 34.00 ..

No. 113½, Plain S Elbow, with Attached Couplings.

Impairing

 1423
 ‡ inch, inside diameter
 23.00

 1424
 † " " 23.00

 1425
 ‡ " " " 25.50

 1427
 ‡ " " 31.00

 1428
 ‡ " " " 30.73

 1429
 1 " " " 50.00
 Lapale Impalement Imparted

No. 11	134, P	lain T	`, with	Attached	Couplin	gs.
Impearl	1436	Mains A	inch, Bras	nch i inch		26.2

Impearl	1436	Main		ioch,	, Bran	rh 🛊 inch.	 26.25
Impererled	1437	44	1	•	*	. "	 27.00
Id-lize	1439	4		•	4	1 "	 29.50
Lyenous	1440	•		•		• •	 22.25
Ignate	1441	•	ŧ	44	•	i "	 34.8
Lynded	1442	14	1	4	*	1	 41.00

Interior Conduit—(Continued).

No. 1888.	Ondo Word. Indisposed Indisposed Indisposing Indistinct Indistinctly Indorse Indorsed Indorsed	Lint No. 1583 1584 1585 1586 1587 1588 1589 1590		inch, each,	. ne		1 Prios. \$0.10 .11 .12 .14 .16 .18 .20
	Indorser Enduce Induct Inducted Inducting Inductive Inductor Indulge	1591 1592 1593 1594 1595 1596 1597	1 1 1 1		. 13		.90 .90 1.00 1.20 1.25 1.50 1.75 2.15
No. 1891.	Indulgent Industry Inca Is famous	1318	Pov	ples, all simpound for wdered So	zes r h	ARROUS. per pound, net	.10 .20 .04
158—Outside Reamer.	Finis	•				g Tools for Conduits	5. 1.00
184—Inside Reamer.	Infancy	154	Ins	ide Reame	er. (each	1.00
combination Reamer.	Infantile	157	Cor	nbination l	lter	umer each	1.90
No. 188. Metal Covered Conduit Tube.	Infected	156				ner for Brass Covered Conduit ze conduits, each	4.25

expended in packing.

Interior Conduit - (Continued.)

Instructions.

In ordering Tube and Fittings the proper amount of Fittings best about the following ratio to the Tube:

Three Couplings to every ten feet of Brass Armored Tube.
Four Couplings to every thirty feet of Tube.
Four Elbows to every thirty feet of Tube.
Fifteen Clips to every thirty feet of Tube.
The number of Main Line, Junction, Feeder and other Bores can only be determined by welful court and the presence of the clients. The number of Main Line, Junction, Feeder and other Borse cases be determined by actual count and the arrangement of the circuit.

Small quantities of Compound, for sealing-Tubes in Junction Boxe, Sompatone and Fishing Wire, should always accompany every order. Iron Armored Conduit is shipped in bundles, securely tied.

Packing Charges are as follows: Stats for Bundling Plain or Brass & mored Conduit, 7 cts. each; Six-foot Crates, 75 cts. each; Ten-foot Crates, 131.00 each; Barrels, 25 cts. each; Small Borses, 15 cts. and 25 cts. each; We charge net cost of material only, and are not reimbursed for the later attention to practice.

Flexible Conduit.



For Interior Wiring

			•	·		•	4	٠.								
Code Word	List No													L	ot Press Per laut	
Amidships	3925	ł	inch	Inside	diameter				 		 			 	\$0.00	ì
Amias	3926	ı	64	4	44									 ٠.	.07	ı
Ammunition	3927	ł	4	4	4											Ì
Amnesty	3928	è	4	4	4										.10)
Among	3929	2	44		•										:1.	2
Amorous	3930	1	64	4	44									 	.10	ı
Amount	3931	11	4	•	4				٠.						.2	9

Shipped in coils unless specially ordered on reels.

Size of Coils and Weight.

					Feet per Cou	Weight per 1000 Feet
į i	inch	inside	diamet	er	250	90
at the	"	**	ч		250	100
4	44	44	*		200	125
Ř	**	**	44		200	140
3	**		**		150	175
ı	••		**		100	360
Ħ	••	**	**		100	260









All Styles are made Six Feet Long.





Six Day



This cut is taken from a photograph slowing a four chamber Conduit, 8 x 8 inches, aix feet long, distance between bearings five feet four inches, supporting seven tons of pig iron.



Communication of six chamber Conduit, showing posttion of dowel pins in abutting joints.

The McRoy Vitrified Terra Cotta Conduit.

Manufactured from pure shale, finely ground, giving density and smoothness; is thoroughly and uniformly burned, affording good alignment and adding great bearing strength.

Made in lengths of 6 feet, and widths of 84 and 13 inches, this size alone commends it to general favor owing to the great surface bearing of each piece.

In cross section dimensions the outer walls are \(\frac{3}{4}\) in. with partitions \(\frac{3}{4}\) in thick, and duct openings \(\frac{3}{4}\) in the square, with rounded corners.

The interior and exterior of Conduit being thoroughly salt glazed, prevents the moisture from penetrating.

The ends of each piece have the duct openings beveled to avoid any possibility of cable coming in contact with sharp edges.

Heing manufactured of shale places it foremost as a material not affected by electrolysis or any gases or acids in the earth, besides being entirely free from corrosion.

The large amount of duct area obtainable in the McRoy Conduit compared with the small cross section of Conduit is well worthy of consideration.

Being made in multiples of two, three, four and six duets, any odd number of multiple Conduit can be constructed.

In making joint a simple Portland cement mortar coating around joint is generally used.

To make an airtight joint a strip of burlap 8 to 10 inches wide, saturated with hot liquid asphalt is wrapped several times around joint, adding to its rigidity and making joint waterproof. No cement mortar is needed for this joint.

It can be laid surrounded entirely by concrete, in which case the concrete on the sides necessarily need not be very thick.

It is considered practical to lay it on a concrete foundation, none on sides, but the top covered with concrete for protection against the users of picks,

Prices Quoted on Application.

Western Electric Fan Motors.

Fan Motors for Direct Current Incandescent Circuits

In designing the W. E. Fan Motor for 1808, great attention has been given to the essential qualities of a Fer Motor, namely Cost, Appearance, Economy of Opera tion and Durability, and we feel warranted in saying that this motor possesses all these requirements to a remarkable degree. The design of the Motor is artistic and graceful, and when running at the maximum speed the 16 loch motor consumes but little more current tha an ordinary 16 candle power incandescent lamp and the 12 inch motor consumes less than any ordinary 16 candipower lamp. The motor is designed upon scientific principles, and drop-forged steel is used in the construction of the burseshoe field magnets -the most economical form of magnet known-all of which contributes to the extraordinary high efficiency obtained in the motor.

The armature is iron-clad and furnished with mica-in sulated commutator, and is entirely sucased by the metal of the motor, protecting it from dust and injury from ex ternal sources

The brush holders are so designed as to automatically take up the wear of the carbons, without the necessity of manual adjustment, and to press the carbon trushes apon the commutator in the direction of rotation. This is a very essential feature for misseless operation.

The Motor is furnished with self-oiling, self-aligning bearings and is slient in operation, the only noise to be detected being caused by the whirring of the fee through the air.

The atmost care in the selection of material and an bling of the Motors is maintained and every Motor is guaranteed.

These Motors have three speeds and are fernished with 16-inch and 12-inch Fan Blades.

The 16 inch Motor is wound for 110, 220 and 550 volume.

direct current. The 12-inch Motor is wound for 110 sales only

The Ceiling Fan Motors have three speeds and are furnished with 60 loch Fan Hiades. They are so for 110, 220 and 580 volts, direct current.

The Column Fan Motors have two speeds



.Desk Fan Motor-12 inch



Fan Motor-12 inch.

Direct Current Fan Motor-(Continued.)

Western Electric Desk Fan, 12-inch, 110 Volts.

Lou No.	List Price, Each
r-1	One stateenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz.: 1,875, 1,500 and 1,200 revolutions per minute at 110 voits, for constant potential circuits, up to 125 voits, self aligning, self oilling bearings, black enamel failsh, complete with 12 inch black enamel fan and guard
F-12.	With polished brass Fau and Guard, and all other outside brass fittings polished
F-3	With nickel plated Fan and Guard, and all other outside brass fittings nickel-plated
	Western Electric Desk Fan, 16-inch, 110 Volts.
1-1.	One-tenth H. P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz. 1,375, 1,000 and, 750 revolutions per minute at 110 volts for constant potential circuits up to 125 volts, self-sligning, self-oiling bearings, enamel flush, complete 16 inch black enamel Fan and Guard
1−5.	With polished brass Fan and Guard, and all other out- side brass fittings, polished
1-6	With nickel-plated Fan and Guard, and all other outside bra-s fittings nickel-plated

Western Electric Desk Fan, 16-Inch, 220 Volts.

One tenth H. P., Western Electric Fan Motor, with regu lating switch, giving three speeds, viz 1,375, 1,000 and 750 revoultions per minute at 220 volts, for con stant potential circuits up to 240 volts, self-aligning. self oiling bearings, with polished brass Pan and buard and all other outside brass fittings polished. . . . 50.00

Western Electric Desk Fan, 16-inch, 500 Volts.

One touth H P., Western Electric Fan Motor, with regulating switch, giving three speeds, viz. 1,375 1,000 and 750 revoultions per minute at 500 volts, for comstant potential circuits, up to 550 volts, helf-aligning, self-oiling bearings, with polished brass Fan and Gnard and all other outside brass fittings polished. 55.00

'n

In ordering give List No. and Voltage,



AAA-15

Fun Motor-16 inch.

PX

A-10



Brucket Fan Metar 12-inch.

A-12. AA-14 AAA-16.

Bracket Fan Motor 16-inch.

Direct Current Fan Motors-(Continued)

Western Electric Bracket Fan, 12-inch, 110 Volts.

Local Park One-sinteenth H. P., Western Electric Pan Motor, with regulating switch, giring three speeds, viz. 135, 1,500 and 1,200 revolutions per minute at 10 with, for revealant potential circuits, up to 15 withs, self-aligning, self-citing bearings, thouseover for adjusting direction of Pan; feet of hase drilled for severa; black research familia; complete with 12 inch black sunnel Fan and Guard \$34.86

With polished bross Pau and Guard, and all other on-side brass fittings polished. 34.00 With nickel plated Fan and Guard, and all other outside

Western Electric Bracket Fan, 10-inch, 110 Volts.

One teath II. P., Western Electric Fan Motor, with my lating switch, giving three speeds, via. 1,275, 1,000 and 750 revolutions per minute at 110 volts, for resultant potential circuits, up to 125 volts, self-sligsing, self-ciling bearings, thumbscrew for adjusting direction of Pan; feet of base drilled for screws, black commel finish; complete, with 16-inch Fan and Guard

Western Electric Bracket Fan, 16-Inch, 220 Volts.

One-tenth II. P., Western Electric Fass Monor, with regulating switch, giving three aposeds, via. 1,073, 1,070 and 730 revolutions per minute at 231 webs, for constant potential circuits, up to 240 value self-eligning, self-elifing bearings, thumberses is adjusting direction of Fan, feet of base drilling is servew; polished brass Fan and Guard, and all other outside brass fittings polished. \$8.00

Western Electric Bracket Fan, 16-Inch, 500 Volts.

In ordering give List No. and Voltage.

List No.

0.84

CC-35.

63.00

Direct Current Fan Motors-(Continued.)

Western Electric Celling Fan, 110 Volts.

Western Electric Celling Fan, 220 Volts.

W.E. Celling Fan Motor, with regulating switch, giving three speeds, viz. 175, 140 and 115 revolutions per minute, at 220 volts, for constant potential circuits up to 240 volts, self-aligning, self-olling bearings, polished brass, oxidized copper or nickel flaish, four 60 inch blades, for cellings from 10 to 12 feet in height, complete without chandelier attachments.

For ceilings over 12 feet in height add 50 cents to the above list for each additional 6 inches.

Western Electric Ceiling Fan, 500 Volts.

W. E. Ceiling Fan Motor, with regulating switch, giving three speeds viz.: 175, 140 and 115 revolutions per minute, at 500 volts, for constant potential circuits, up to 550 volts, self-aligning, self-oiling bearings, polished brass, oxidized copper or nickel fluish, four 60-inch blades, for ceilings from 10 to 12 feet in height, complete without chandeller attachments.

For ceilings over 12 feet to height add 50 cents to the above list for each additional 6 inches. Special prices quoted for Ceiling Fans with two, three

or more brackets arranged for Incandescent Electric Lights.

For chandeller attachment including four rigid ball joints, for T-JL or Westinghouse sockets four shade holders and four crimped porcelain shades 6 luches diameter, the whole wired to socket, additional.....

Fun with two blades; three speeds, viz.: 210, 170 and 147 revolutions per minute.

In ordering give List No. and Voltage.

List No

Direct Current Fan Motors-(Continued.)

Western Electric Column Fan, 110 Velts.

Height of Blades from-floor, 7 ft. 4 m.

List Pass M-37, Western Electric Column Fan, with regulating switch, giv-ing two speeds, viz.: 160 and 75 revolutions per massic, at 110 volts, for constant judential incandescent circuits up to 155 volts, self-oiling brazings, polished brass finish,

60-inch blades

This Fan will be arranged for chandelier lights under the blades when so desired.

Western Electric Column Fan, 220 Velts.

Height of Blades from Scor. 7 ft. 4 is

MM-38, Western Electric Column Fan, with regulating switch, giv-ing two speeds, viz.: 150 and 75 revolutions per minute at 220 volts for constant potential incandescent circuits up to 240 volts, self-colling bearings, polished ebrass finish, 60 mch blades

This Fan will be arranged for chandelier lights under the blades when so desired.

Western Electric Column Fan, 500 Volts.

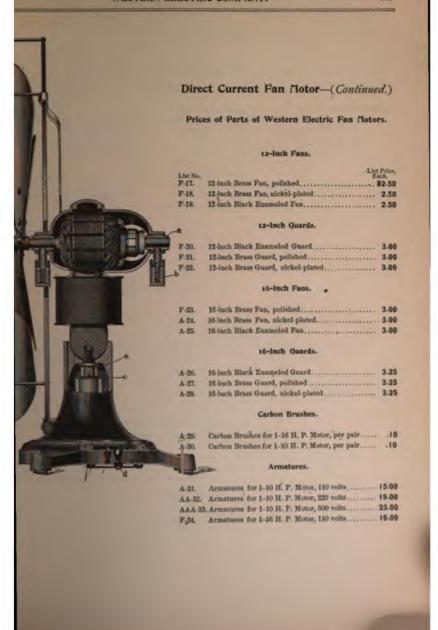
Height of Blades from floor, 7 ft. 4 in.

MMM-39, Western Electric Column Fan, with regulating switch, giving two speeds, viz. 160 and 75 revolutions per mis-ute, at 560 volts, for constant potential incandescent cir-cuits up to 550 volts, self orling hearings, polished brass

Special prices quoted on Column Fans with two, three or more brackets arranged for incandescent lights.

We furnish Column Fans with round mahogany table around standard.

for restaurants. In ordering give List No. and Voltage.



WESTERN ELECTRIC COMPANY

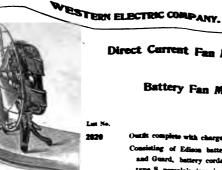
Parts of Western Electric Desk Fan lotors—(Continued.)

Lot No			•													1	u	m	ě
F 54.	12-i	nch	Rheustat	for	110	volt	L .		 	٠.	٠.	٠.	٠.	٠.	 ٠.			11.0	ì
F 55.	16	••		••	110	•			 						 			1.0	ð
F 56.	16	•		4	230	-			 ٠.	٠.					 ٠.			14	8
F-57	16	••	••	•	220	•	٠.	٠.							 			14	8
F 58.	12	*	Switch i	lar.	110		٠.								 	٠.		4	
F 50.	16	4	4	•	110	4									 ٠.			4	•
F (b)	16	•	••	•	220	-			 						 			4	•
F 61	16	••	-	•	380	4.			 						 			4	ø
F 62.	Oil	Cu	p (Sample	te,					 						 			4	
F 63.	••	••	Spring						 	٠.,							٠.		10
F 61.	4	••	Wick,																×
F 65.	54-1	(»li	gning Jo	HTHE	1,										 			J	a

Parts	of Western Elect	tric Ceiling Fan Motors
C 66.	110 volt Armature,	10.00
CC 67.	290 - "	149
CCC-68,	550 " "	, 20.00
C 69.	110 " Field Coil, (Two	Sections)
	(Each Field Coll is ma	de up of two sections,)
CC 50	220 volt Pield Coil.	
CCC 71	550 " " "	11.7
C 72.	110 " Rheestat,	1.6
CC 73	290 " "	
CCC 74.	550 * *	
C 75.	Carbon Brushes for 110, 2	i
C 76	45 degree Ball joint for Cl	andeller attachment
C 77.	Switch handle,	
C 75.	Blades per pair,	
	Note: (Always order be balanced in weight to	blades in pairs as they have to prevent swaying.)
C 79	Oil Cups, complete,	
C 90	Oil Cup Springe,	
C 51.	Oil Cup Wicks,	
C 82	Self aligning Journal,	

.74

.12



Direct Current Fan Motor-(Continued.)

Battery Fan Motor, No. 1.

57.11	Last No.	Last	Price.
	2820	Outfit complete with charge to run 135 hours	25.00
		Consisting of Edison battery motor with 9 inch Pan and Guard, battery cords, four Edison Lalande cells, type 8, porcelain jars, in polished oak box 25 inches long, 8 inches wide, 15 inches high.	
	2821	Battery motor with 9-inch Fan and Guard	12.00
		The motor with fan occupies a space 10 x 12 inches. It is absolutely noiseless.	
Co.	2822	Flexible battery cord connecting cord to battery	1.00
	2823	Complete renewals for 4 cells, type 8	4.76
1	2824	Zinc plates	·21
	2825	Copper oxide plates	.25
1000	2826	Caustic potash per can of 8 sticks	.96
CC20000 - N		Hanna mana@na att man banda	

No. 2820. Battery Fan Motor.

Iron Clad Fan Motor, No. 2.

Caustic potash per can of 6 sticks..........

Heavy parasine oil, per bottle....

	2828	Consisting of iron clad motor with 7-inoh Fan and Guard, battery, cords, 3 Edison Lalande cells, porcelain jars, type 8 in polished oak boxes 188 inches long, 8 inches wide, 15 inches deep.	
	2829	Edison iron clad battery fan motor with 7 inch Fan and Guard. It is noiseless, has self-oiling bearings, and is entirely enclosed in iron clad case, being pro- vided with glass window at roar for regulation of brushes	8.50
2/12		When ordering renewals for this outfit always state for type 8.	
\$ S . A	2839	Complete renewals for 3 cells, type 8	3.60
	2831	Zinc plates	.21
	2832	Copper oxide plates	28

2834

Alternating Current Desk Fan Motors.

Our Alternsting Current Fan Motors are made for either 60 cycles or 125 cycles.

The Motors have a speed regulating device consisting of an inductive resistance operated by a three-point sup-awitch capable of giving full speed and half speed, the third position of the awitch cutting the motor out of circuit. This controlling switch will be recognized as a great convenience, as it not only permits a change of speed but allows the motor to be wired directly ic a discuit without the introduction of a lamp socket and plag connection.

The field core is a ring of iron punchings upon the inwardly projecting teeth of which the field colls are placed. The armsture has no insulated wire, but coplaced. The armsture has no insulated wire, but consists of the customary laminated core through which, near the periphery, bare copper rods are run, their each being riveted to copper disks at the suds of the commutator or brushes are required. This permits the armsture core to overhang the bearing to such a degree that, together with the fam, a balance is effected in the single bearing of the motor. This bearing is long and is provided with a self-oiling device so that it does not heat. By this method of lubrication the flying of oil is prevented.

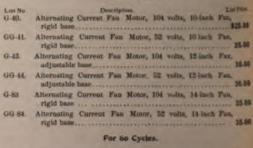
The 12-inch motor is supported on trunsions which

The 12-inch motor is supported on trumions which allow a vertical angular adjustment.

These motors are made in three styles.

10 inch diameter, with regulating switch, rigid base. 12 inch diameter, with regulating switch, with transfer 14 inch diameter, with regulating switch, rigid lase.

For 125 Cycles.

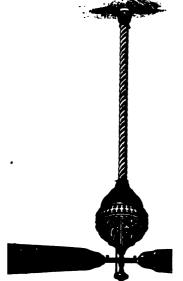


G-45.	Alternating Current Fan Motor, 104 volts, 10-inch Fun	25.88
00-41.	Alternating Correct Fan Motor, 52 volts, 10-lach Fau	25.65
G-48.	Alternating Current Fau Motor, 104 value, 12 inch Fau	10.00
60.49.	Alternating Current Fan Motor, 52 volts, 12 inch Fan.	36.85
G-85.	Alternating Current Fan Motor, 104 volts, 14 inch Fan, rigid base	
UG-88	Alternating Corrent Fan Motor, 52 valts, 14-lack Fan.	





12-inch Motor with adjustable base, or Trumion.



Tuerk Alternating Current Ceiling Fan Motor.

It is operated by induction and has no brushes or commutator, all bearings self-oiling, the Motor is supplied with a starting and stopping switch, and a blade adjuster, which admits of the blades being changed to any angle without stopping motor or changing speed. It is necessary to oil the motor only once a year

The motors are furnished in the following finishes: bronze, nickel, bower-barff, polished brass and white and gold.

Each Fan has marked on a plate the voltage on which same should be run; a slight variation from this will make no difference.

Made for 60 cycles, 52 and 104 volts. Made for 125 cycles, 52 and 104 volts. Made for 140 cycles, 52 and 104 volts.

We can furnish them up to 120 volts when required.

T-50.	Bronze	50.00
T-51.	Bower-Barff.	50.00
T-52.	Nickel	54.00
T-63.	Brass	60.00
	For white and gold finish, additional, net	2.50

For cellings over 14 feet \$1.00 per foot extra will be charged. Without switch, \$2.00 less, net.

When ordering Alternating Celling Fans state number of cycles or number of alternations and give voltage. In case you can not determine the number of cycles or alternations state what systems are used, viz. General Electric, Westinghouse, Stanley or Fort Wayne In ordering give List Number and Voltage.

Combined Exhaust Fans and Lundell Motors.

Direct Connected, Noiseless, Efficient, Variable Speeds.

The design of the Lundell McCr lends itself most readily in application to exhaunt fan work. The motor, being iron clad, is almost wholly is closed and easily permits of connection by radial arms, spider, or beint a say of the many forms of exhaust fans now to be found in the market.

It has been the practice of manufacturers of exhaust fans to supply a bearing in front as well as in the inack of the fan, but is our application we carry a shaft, which may be horizontal or vertical, in two bearings in the motor frame itself, not supporting the shaft in any sense from the lin rise. This course insures perfect alignment and noiseless running.

All exhaust fan outlits are made with horizontal shafts, unless otherwise ordered, and are invariably made so that the direction of the flow of air is from the motor toward the fan. If it is desired to operate the fan with a vertical shaft or to drive the air through the fau and over the motor, is should be specifically stated in the order. With all standard towinstal shaft fans, an adjustable thrust bearing is provided. When the firm of size is desired contrary to the standard direction, a button and threst bearing is placed at the rear of the motor.

In all horizontal shaft fans, tubrication is effected by oil. In retraslating that fans, horizontal is shaft fans, lubrication is effected by oil. In retraslating the fans, horizontal is shaft fans, tubrication is effected upon the motor general greece cup or oil bearing) at the upper end of the shaft. Purficular consthould be taken to see that the white line marked upon the motor be a vertical position when the fan outil is erected.



Catalogue No.	Size of pan. Inches.	Speed	Motor Horse- Power.	Amperes	Valtage.	Pyon
990	18	1000	*	1.5	115	\$20,00
1002	24	650		3.	115	300:00
TATALE.	36	600	9	10.	115	430,00
94/8	42	550	4	20,	115	600,00
1000	60	500 400	10	25.	115	750,00
1004	72	350	15	50.	115	1500,00

We attach our Landell Motors to any of the standard makes Ventilating or Exhaust Pans. A list of prices and the charge make for attaching is given herewith.

Horse-Power.	*Price of Motor and attaching:	Sire of Fun.	Price for attaching
	132.00 180.00	18 24	\$43.00 50.00
-	320,00 320,00 505,00	30 36 42	70.06 80.00
10 15	565,00 820.00 1100.00	48 60 72	90.00 130.00 200.00

Combined Exhaust Fans and Lundell Motors-(Continued)

Motors are wound for 115, 230 and 500-volt circuits. 4, 4, and 1 H.-P.

Motors, wound for 500-volt circuits, \$5.00 net extra.

Purchaser will understand that, for example, a 2-horse-power motor
whose standard speed is 1000 revolutions per minute is a 1-horse-power
motor at 500 revolutions per minute, or in other words the power a motor
exerts is directly, proportional to its speed.

The prices on preceding page are for disc fans only. Centrifugal
fans, prices on application.

Motors for direct-connected outfits are made special, and are different
from the standard power motors, having extra length of shaft, extra heavy
bearing next to fan, thrust bearing, etc.

*Contomers to turnish fan sed ring or frame.

*Customers to furnish fan and ring or frame.

Direct Connected Electric Blowers and Exhausters.



Table for Direct Connected Blowers.

	Size	Symbols			Presi	Sizes of Motors (These Vary
B. F. Storte- vent & Co. "Munagram."	Buffalo Forge	Boston Blower Co	American Blawer Co. "Dixle"	J. P. Polsey	шиге	According to Pressure of Al Required.) Home-power.
00 0 1 2 3 4 5 6 7 8 9 10 37	113 2B 3B 4B 5H 6B 7B 8B 9B 10H 11B	24 27 30 35 40 45 53 63	14 18 22 26 30 34 35 42	D and E F G II and I	From 0 to 5 ounces.	4-1 4-1 4-1 4-2 4-4 1-5 1-7 2-10 3-15 74-15 10-20 20-25 25-35

Prices upon application.

Lundell Motors and Dynamos.

Data and Prices.

Guaranteed	Wates.	Amperes	Voltage	Approxi-	POLLEY		Lot
Brake H H	11-91-0-	at 115 Volts.	Tomage	Speed	Diam	Pare	
16			4 Battery	1300	1	V	500
*	-	200	115	1050	1	V	\$1 D
100	4.45	11 10	8 Battery	1200	14	V	22 0
4		2011	115	1200	14	V	40 (5
1	,250	2.2	*115, 230, 500	1640	20	34	10 0
4	-500	4.3	*115, 230, 500	1485	34	201	130 0
1	1000	8.7	*115, 230, 500	1225	44	34	100 0
8	1920	16.7	115, 230, 500	1040	65	34	220.0
3	2750	23.9	115, 230, 500	1480	6	29	20.0
4	10075	32.	115, 230, 500	1150	7	32	435.0
** 5	4525	39.4	115, 230, 500	1073	8	46	475.0
94.75	(1650)	57.8	115, 230, 500	1000	9	5	600.6
**10	8750	76.1	115, 230, 500	878	11	16	700.0
**15	12700	118 7	115, 230, 500	785	13	654	U00.0
**20	16700	142 2	115, 230, 500	725	15	7	1100.0
0495	20050	179.5	115, 230, 500	770	17	8	1300 (
++35	28500	248.7	115, 230, 500	750	22	10	1800 0

 4 I, $\frac{1}{2}$ and I H.-P. motors, wound for 500-volt circuits, \$5.00 met, extra **4-Pole Type, all smaller sizes 2 Pole Type.



NOTICE.

Prices subject to change without notice

Boxing and cartage charged at cost.

Above prices lockade fire proof starting beint

Adjustable losse, for tightening belt wise at
quired, will be furnished with 2 II. F size exrer without extra charge.

Machines are also wound for slower speeds will

proportionalely smaller outputs, and for my set age between 50 and 150 with.

Regulating Rheustata capable of 56 per red reduction in speed furnished at a special question

Plating Dynamos.

Price List.



No. 1 Plating Dynamo.

	Silver per hour	Nickel.	II. P. required at full load.	Pullon	Speed. List Approximate. Price.
No. 1	2 oz.	36 gal.	1	14 x 12 in.	2,500 \$ 40.00
No. 3	15 tt	100 "	4	2 114 "	2,000 95.00
No. 4	12 "	200 "		3 x2 *	1,750 140.00
No. 5	25 u	400 "	1	4 12 "	1,900 190.00
No. 6	B3 "	823 "	2	5 43 4	1,750 250.00
No. 7	110 "	1,700 **	4	7 14 "	1,600 390.00
No. 8	160 "	3,000 "	5	8 15 "	1,400 425.00

With No. 6 and larger sizes are sent sub-base, sliding rails and belthtening gear. Rheostat included in above prices. tigh

Alternating Current Power Motor.



sting Carrent Power Motor.

This Motor is non-synchronous, and runs at a practically constant speed under any change of load up to its full capacity. The armature and field are finely laminated. The winding on the armature consists of copper bars, which are inserted in holes near the periphery, and are connected at the ends by massive copper rings, thus furnishing a closed circuit winding of great capacity. The current in these conductors is produced by induction, hence no collector, commutator, nor connection with the outside circuit is needed. The winding of the fields and the arrangement of the iron in the pole pieces produces a starting torque equal to one-half that of the machine under full load.

In starting the motor the button on the back of the motor is pushed in for a few seconds until the armsture comes up to speed, when it is released. The motor requires no further attention while running.

\$ H. P., 52 to 101 volts, with greaved or flat pulley...... \$40.00 § H. P., 52 to 104 volts, with greaved or flat pulley..... 60.00

These motors are built for 52 or 104 volts, high or low frequency. In ordering be particular to state voltage and number of periods or cycles per second. Low frequency machines are only made to order.





P. & S. All China Junction Box and Motor Cut-Out.

The illustration shows a form of motor cut-ori sal junction box that will meet the requirements of the average motor installation.

The fuse chamber is entirely surrounded by percials and is completely divided by means of projection on the plug, this gives plenty of room for the fuse.

A five (5) inch fuse is required in this cut-out,

The plug is held in the box by means of the Keife Contacts shown in the illustration and cannot drop out.

The connections will take a wire from No. 8 B Δ 5 is the smallest size.

This device should not be used on motors taking over 60 amperes of current on normal loads

It can be used for motors,

On 110 volts up to 8 H, P. On 220 " " 15 " On 500 " " 25 "

For larger size motors the Bryant High Tension Service Switch and fuse box combined should be used.

On each corner of the P. & S. junction box is an eye, to these eyes service wires may be attached thus saving the expense of an extra insulator.

In addition to its use as a motor cut out it may be used as a junction box for transformers, as a telephone cut out and for outside work on service lines. It may be fastered to its supports by lag screws or wood screws.

Furnished in black or white.

Two lag screws are furnished with each cut out.

TOOLS.



Carrying Hooks.

15005 Carrying hook, with swivel bearing, each \$ 5.00



15010 Extra heavy, 7-foot handle.... | 150|| Heavy, 6-foot-handle Marquette 15012 Medium, 5-foot handle......

4.50 4.00 3.50

2.50

6.00

These hooks are made with particular regard to construction work. They are not malleable iron. The swivel bolt is forged wrought iron; hooks steel, with special long prods. The handles are made especially for us.



Cant Hooks.

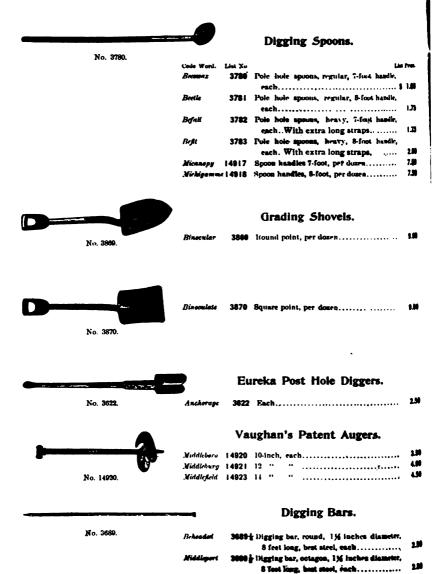
15007 Cant hook, 4 feet long, each.



Digging Shovels.

Meshhoppen	14910	Pole hole shovels, regular, 7-foot, handle,	
		cach	1.25
Metumora	14911	Pole hole shovels, regular, 8-foot handle,	
		each	1.40
Metculf	14912	Poleshole shovels, heavy, extra long straps,	
		7-foot handle, each	1.50
Metropolitan	14913	Pole hole shovels, heavy, extra long straps,	
		8-foot handle, each	1.60
Meyers	14915	Shovel handles, 7-foot, per dozen	5.50
All Interest	14916	Shovel handles 8-foot per dozen	6.00

14916 Shovel handles, 8-foot, per doxen......



3693 # "Mule" pattern, height 4½ ft 7.00 3694 # " " 6 " 7.00 3695 # " 7.60 7.00

Crow Bars. List Prior. Week, Code Word. *Behavior Behead* 3887 Crow bars, 4 feet long..... \$ 2.50 No. 3687. Tamping Bars. No. 1108 Raising Forks. Millanfield Millerrille No. 14923 Pike Poles. 14928 Pike pole, length, 12 feet... 14929 " " 14 " ... 14930 " " 16 " ... 14931 " " 18 " ... Mille rton Willenbury 14929 14930 Millar Millerburg No. 11928. Pole Supporters. Millerfield 14932 Jenny pole supporter, height No. 14982.

No. 3698.



Reels.

Cude Word LN POR



Marcel

15015 Improved take-up recl, each

17.58

The improvement in this reel cousists

The improvement in this red coustiff a separate guard piece (shown in cut below) which is alipped on shaft and farened with a flat key. To empty the red, lift the spool out of buck, draw the jey, and turn reel on end, the guard piece and coil will then come off together. This arrangement does away with the loose loggle guard irons of the old style reel and is much handler. much handier.



Constrictive 2545 Pay-out and take-up reel, each...... 1659





$Vises-Stubs\ .$

Curde Word.	List No.								Price Cach.
Millergan	14935	Stubs	. 3%	inc	h			. \$	2.2
Millington	14936	••	6	••		,			3.00
Hillmont	14937	••	3,%	••	coppe	r fac	٠		3.5
Millstadt	14938	**	ĸ	••	••	••			4.5

Vises-Vom Cleff's.



"Come-Along" Eccentric.

Milton	14940	For No. 9 wire	.66
Millecood	14941	For No. 3 wire	1.28
Milo	14942	For No. 000 wire	1.50



Klein's Plain Eccentric.

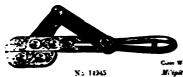
Beauty	3705	Brass	1.25
Beaut ys pot	3706	Steel	1.10



Haven's Clamp.

Blundering	3494	Small size	1.75
Blunt	3495	Large size	3.50

No. 846-



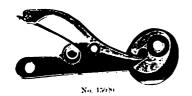
The Buffalo Grip.

Laten		List Pro-
14945	Large sive. for Trolley ware	\$44
14046	Small " " No. 6 and smaller	2.5
25594	Extra large grip	61
H. # . h	tion with sullan 50 cours has delivered	

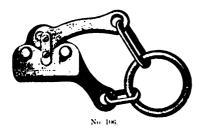


Parallel Screw Clamp.

For Trolley Wire.



Ferdinand Wire Stretcher.



Fulford's Eccentric.

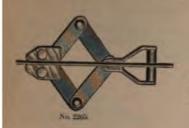
106 4.00 Will take No. 3 R. & S. bare wire-



Landee's Clamp.

Discerned

Millioro



The Parallel Wire Stretcher.

No Teeth. Direct Pull. All Steet.

List No. Capna 2265 Fine tool steel, per dozen,..... 36.00 2542 Cast steel, arranged for hooks; suitable for electric light and Captufed trolley wires; carries any size up to No. 000, inclusive, per dozen.

42.00



Klein's Compound Eccentrics.

Style A.

Milford Milard



No. 2534.

Style B.

For hard drawn copper wire. As both the upper and lower bearings of this clamp are made of brass, there is no danger of injuring the wire.

2524 Each...... 2.50

3.50



No. 15005.

Style C.

Maryeille 15025 Light, for No. 4 B. & S. and finer,

15026 Heavy, for No. 0 and Sner. each 5.00 Marquota



GEORGE COTTER I

The Westfield Grip.

Carries any size Wire up to No. 4.

Code Word. <i>Song</i>	List No - 25088	Each	 		\$ 2.50



Improved Parallel Wire Stretcher.

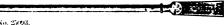
Songful Songish

Cutter Lag Screw Wrench.

Made in two sizes, for 2 inch and for 2 inch last screws. Is especially handy for putting up wind lasses, pole pulleys, brackets, and the like.

Soughes 25091 Por 3 inch Lag Screws, each 25092 For 3- " each Songster

The Electric Spud.



No. 25003.

No. 25091

The handles being made of crucible steel tubing, (espec ially for this purpose) and are as strong as a solid steel bar. The blades are forged from best open hearth crucible min

The manes are ingest from several part in article from the fing tool steel and tempered.

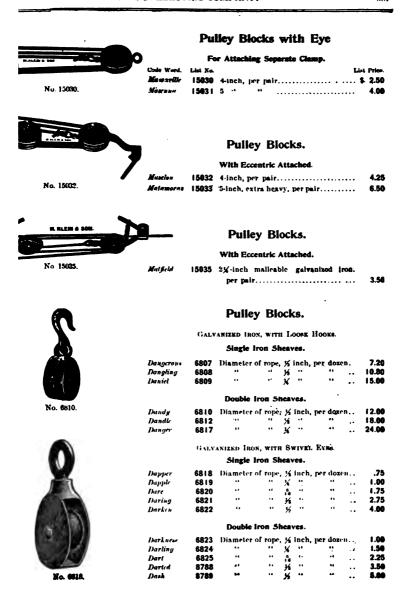
These Spads are provided with tamper on upper end for tamping ground around pole, thus combining a Spad and tamping bar in one tool. Length 9 feet.

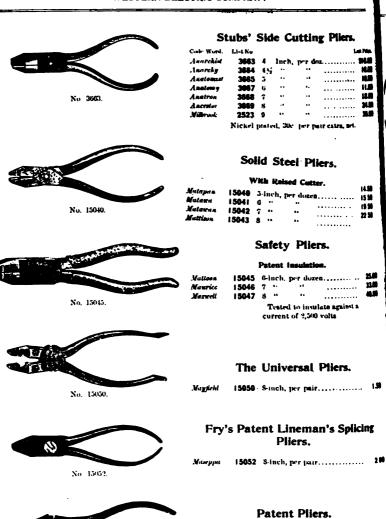


Chicago Fuse Repair Kit.

Contains five sizes of fuse wire, also a good assortment of fuse links.

25598 Kit, complete:\$1.00 Acquirer





Magford

No. 15055

8 10

Vom Cleff's All Steel Pliers.

				de Cuttin		
	Code Word.	List No.				let Price.
	Belched	3794		ch, per dos		
	Belching	3795	44	••		
	Bulfry	3796	5		•••••••••	
	Belgian	3797	54		••••••••	
	Belie	3798	•		•••••	
No. 8794.	Betied	3799	٠,		•••••••	
	Belike	3800	•			
	Bolittle Deltara	3801 3802	0			
	Bellow	3602 F4	9	•	•••••	22.39
			Flat	, Long N	····	
	Coquettish	2835	3 In	ch, per doz	en	4.20
	Coquelling	2836	31			4.20
	Cora	2837	4	••		4.20
	Cural	2838	44			4.20
	Coralite	2839	5			4.60
	Coralline	2840	9			5.40
No. 2635 .	Corelloid	2841	6	. ,,	***************************************	6.30
			Diag	ronal Cut	ting.	
	Corent	2869	8 In		en	
	Corcule	2870	34			
	Cord	2871	4			
	Cordage	2872	41			8.00
	Cordate	2873	5			
	Corded	2874	51	••		9.00
	Cordelia	2875	٠			
	Cordial	2876	٠,			
No. 2869.	Cordially	2877	•			
	Cordon	2878	8	·· ••		18.00
			-			
			Rous	nd, Long	Nose.	
	Cordora n	2879			en	4.20
	Corduroy	2880	.,,			
	Corderain	2881	•	. "		4.20
	Corclation	2882	*1		• • • • • • • • • • • • • • • • • • • •	4.20
	Corinne	2883			••···	4.60
	Corinthian	2884	.,,			5.40
No. 2679.	Cork	2885	6			6.20

No. 2679.

No. 3789.

Bernard's Combined Parallel and Cutting Pliers.

				William be-	
Code Word.	Lint No.	Longth.	WILLOW	open.	The same
Beholder	3789	40% Inc.	No. 0 B. & S. Wire.	% in.	\$11.38
Beholding	3790	335 "	No. 7 B. 48.	76 "	14.56
Behoore	3791	815	No 5 B. & S. Wire.	#20	17,50
Belabor.	3792	71/2 "-	No. 3 B. & S. Wire.	W "	2438





No 15060.







Bernard's Parallel Pliers.

Consummate Consumption	2688	436	Inch	7.00
Consumptive	2690	035		11.08

Hall's Telegraph Pliers.

Meclakling 1506	0 Sloch			14.65
-----------------	---------	--	--	-------

15062 8 inch......

Fixture Pliers.

Mechani	15063 CW	with	9.0

Rubber Handles for Pliers.

Constructor Constructore Consular	2680 2681 2682		17.00 23.00
Consulate	2683	A	35.50

		Spli	cing	Clamps or Connectors.	
6.55	No. 8632.	Code Word. Conlagion	List No. 8632		Prior. Pair 2.00
AFF.	No. 8633.	Contagious	8633	For No. 6 and fluer wire	2.00
	No. 9634.	Contaîn	8634	For Nos. 4, 0, 8 and 9 wire	2.00
	No. 9635.	Contained	8635	Copper jawed, for Hard drawn copper were No. 8 and finer	3.00
	M. No. 15085.	Mecede	15065	Combination No. 2 and McIntire connector	2.36
	No. 15086.	Medeira	15066	Railroad, for Nos. 0, 2 and 4 wire	2 00
OF THE	Marketina son. No. 15067	Medfield	15067	For McIntire joints	2 00
	RALEMASON Ro. 18088.	Medford	15068	Seven inches long, for No. 9 to 16 wire	1.85

Vom Cleff Splicing Clamps. Cude Word. List Xo. List Fro. Mellispolis 13070 4-Hole, per pair...... \$ 130 No. 15070 Mediene 15071 2-Hole, per pair..... 130 No. 15071. McIntire's Twisting Clamps. 2673 Compressing and cut-ting piters, for No. 10 to No. 20 wire, per pair..... 2.00 No. 2673 2674 Twisting clamp for No. 8 to No. 16 wire, Efective 3.50 per set of 2 pair No. 2674. 2675 Twisting clamp for No. 4, 5 and 6 wire, Efectual per set of 2 pair.... No. 2675. 2676 Twisting clamp, for No. 00 to No. 6 wire, per set of 2 pair..... **Effected** No 2676,

Climbers.

Milbury

Mildale

Millan

Minijo

No. 2515.

No. 2517.

2515 Western pattern, per pair, no straps.
2516 Straps, per set of iour.

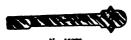
2517 Eastern pattern, per pair, no straps. 2518 Straps, per secof four. 1 00

3.00

100

No. 15073.

NO. 13013.



No. 15076



No. 15077.



No. 15078



No. **3496**.



Ño. 15080.

Double Steel Splicing Wrench.

For Iron Wire or Heavy Copper Wires.

We keep in stock two sizes, one for 4 and 6 wire and one for 8 and 9 wire. These wrenches are accurately fitted for the respective wires and will make a tight, clean splice. We have made them for as large as 00 wire.

Steel Tie Wrench.

For Hard Drawn Copper Wire.

The purpose of this tool is to make the tie around the line wire, where it is fastened to the insulators. It will wind the tie wire around line smoothly, without marring same.

Combination Lag-Screw and Nut Wrench.

Steel Lag-Screw Wrench.

This wrench is very convenient for drawing up lag-screws through cross-arms; the jaw is made tapering to accommodate variations in bolt heads.

Coe Wrenches.

Blunted	3496	6	inch,	per doze	n		9.00
Blunting	3497	8		• ••			10.00
Bluntly	3498	10	**	••			12.00
Blur	3499	12	••	••			14.00
Blurred	3500	15	••	••			24.00
Blurring	3501	18				• • • •	30.00

Tree Trimmers.

Minburne) Minden		Regular, each Extra heavy, each	
Melton	15080	Vom Cleff, each	3.00



Electricians' Hammer.

Code Word	List No.		Set.
Mendon	15115	9-01	3 R

No. 15116.



No. 15122.

Nail Hammers.

		Plain Eye.
Mendota Mendo Mendo	15116 15117 15118	15 °
		Adze Eye.

Hatchets.



Hand Axes.

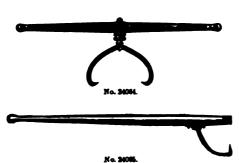
Merigold	15124	414	Inch	ent	1,25
Merom	15125	5	Xt	*	L45
Merian	15126	5%	44	W	1.53
Merricourt	15127	6	-1	-	1.89



No. 15180.

Linemen's Axe.

Merillian Merimae		With handle	1.35 1.00
----------------------	--	-------------	--------------



Dicke Tools.

Carrying Hooks.

Code Word List No List Price. Skill 24064 With Swivel, each. \$3.00 Length of handle, 4 feet.

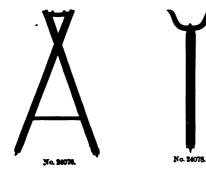
Cant Hooks.

Skilled 24865 Length 4 feet, each..... 2.25



Wood Handle Tamping Bars.

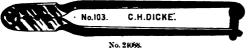
.Skinch 24875 Hardwood, Iron shoe, per doz..... 25.00



Jenny Pole Support.

Mule Pole Support.

Skink	24078	4+	(cet,	each									5.00
Skinkes	24079	6	4										6.00
8kinner	24080	71	*	•									7.00
	Li	tht	nad v	re ry s	tr	U	•	•	ţ.				



Dicke Tools—(Continued.)

Splicing Clamps.



No. 24093.

Code Word. List No. NAippingly/24085 No. 100. Polished, 4 hole for No. 0 B. & S. wire and face, List Ma ... \$30-00 Skid

Skirret 24090 No. 105. Polished, same as 104, with copper jaws, per



Terret.





No. 24098.

Western Climbers.

Skirt 24091 Without Straps, per pair Skirting 24092 Straps, per set

Eastern Climbers. Skittiskiy 24093 Without Straps, per pair Skittiskiy 24094 Straps, per set

Lag Screw Wrench.

Skittles 24095 Fits any size head, per duz. 16.00

Splicing Tool.

Skier 24096 Per dozen \$-60 -- -- -- -Howe's Improved Wire Tool.

24097 Wire Tightener, only (without vise), with strap, each, 4.50 Skicer

24098 Wire Tightener, with 54 in. Vise, with strap, each 7.00 Skout

Eccentric Clamps.

Sheed



Dicke Tools-(Continued.)

Common Reel.

Cule Word List No. List Price Each.

Skimnings 24081 Complete with Pins.... \$10.00



Combination Pay-Out Reel.



Take-Up Reel.

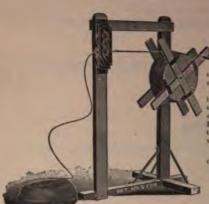


Dicke Lock Ferrule Screw Driver.

Blades forged from finest tool steel, Polished Mulicable Ferrules, Pluted Handles.

Length of Blade	21	-33	44	5)	Gà.	84	101	184			
Cablest, per doz	\$3,00	gll.50.	86.50	\$5,50	\$6.50	88.00	\$9.50	\$11.00		Cal	
Length of Blade	24	34	4	-	. 6	7	8	9	10	11	12
Machinlats, per doz	3,00	3.50	4.25	5.00	6.00	7,00	8.00	9.00	10,00	11.00	12.00

Blades and Blandles of the Dicke Screw Driver are warranted not to turn in the ferrule.



Wire Reel and Meter.

Code Word List No. Sisting 24001 Meter, with Roel, each 1251

No. 24001.



No. 24002

Wire Meter for Counter.

The meter is also made, mounted on a neat how, to be used on a counter where a reel is not needed. For whe factories and dynama builders the meter alone is invita-able.

80 24002 Meter, without Reel, each

"Cable Meters are made to order only, and are applied measuring cables of all alless, rope as steet sales.

Special prices quoted on Calife Meters.



Sheffy Pipe Wrench.

It is quick acting, self-adjusting and has but three parts. It is so can structed that it cannot lock on the pipe, will disengage itself by reversing the lever. It cannot slip as the stronger the effort to turn the pipe the firmer the grip. It cannot be abused by using on larger pipe than the slip designated by number. All parts interchangeable.

The construction is so simple that it appeals to the mechanic at once. No screws or springs and self adjusting.

To operate the Shelfs. Pipe Wruch, open the jaw, hook on the pipe, pfill on the handle. This brings the lever up against the dog and creates the grip. The stronger the pull on the lever the stronger the grip.

Length and Dimensions

	U	ı	2	3	4
	7 inche	y inches	12 im he	l3 iuch⊷	18 im hes
Pape.	å to 🛊	1 to g	i to I	1 10 11	1102
		Price List W	renches and	Parts.	

		•	1 1	2	4	•
Wrench,	List	£2.00	\$2 00	EZ 25	\$3 (10)	£4 00
Handle	*	`√80	. 50	.00	.70	80
Jaw,	** .	.70	70	.80	10	1 00
Dog.	•	60	60	.70	80	.90

"Vulcan" Insulated Screwdrivers.

.- .---



MOULDED MICA DISCLATION.

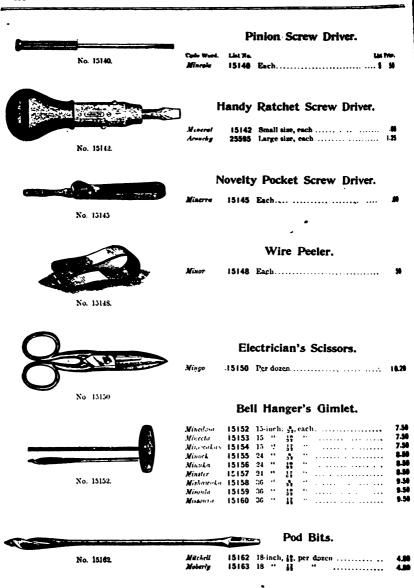
Catching	1164	21	inch,	per do	sea	6.00
Catchword	1165	31	••	••		7.00
Catechise	1166	4	••	••		8.00
Calochiaed	1167	8	••	••		12.00
Calechism	1168	6	••			13.50



Champion Screwdrivers.

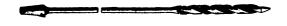
Luf	2554	21	inch, j	per doz	ven	3.00
[.uggage	2555	3	••	••	**********	3.50
Lugger	2556	4	••	••		4.25
Luke	2557	5	••	••		5.00
Lull	2558	6	••	••		6.00
Lullaby	2559	7	••	••	*****	7.00
Lulled	2560	8	••	••		8.00
Lumbago	2561	9	•-	••		9.00
Lumbering	2562	10	••	••		10.00
Lumberingly	2563	11	••	••	********	11.00
Luminary	2564	18	••	••	**********	12.00

WESTERN ELECTRIC COMPANY.



_

The "Syracuse" Electricians' Drill Bit.



THE NUMBERS INDICATE THE SIZES IN 32DE OF AN INCH.

lack.	M Inch.	St Inch.	30 Inch.	31 Jack.
Dog.	No. Per Dos.	No. Per Due.	No. Per Dos.	No. Per Don.
00	6\$7.00	6 \$9.00	6 \$11.00	6\$13.00
00	8 7.00	8 9.00	8 11.00	8 13.00
50	10 7.50	10 9.50	1012. 00	1013.00
00	19 8.00	12 , 10.00	13 12.00	1213.00
00	14 9 00	1411.00	1413.09	1414.00
00	16 10.00	16 12.00	16 14.00	16
00	1811.00	18 13.00	1515.00	18 1 6.00
60	20	20 14.00	2015.00	2016.00
88	2313.00	23 15.00	2316.00	2317.00
00	2414.00	2416.00	2417.00	24 18.00
00	26 15.00	2617.00	2618.00	9618.00
●0.	2816.00	28 18.00	2819.00	28 19.00
00	8017.00	30 19.00	3020.00	80 . 20.00
00	89 18.00	3920.00	89 20.00	8220.00
00	34 19.00	3420.00	8420.00	8420.00
00	3620.00	8621.00	8621.00	3621.06

Adjustable Malleable Iron Handles.



FOR USE WHERE A BRACE IS INCONVENIENT.



Automatic Boring Tools.

Code Word. List No.

..........

Corkserve 2353 Automatic Boring Tool, with 8

Drills, each...... 2.08

WESTERN ELECTRIC COMPANY.



Amidon's Patent Corner Bit Brace.

Code Word.	List No				List Prov
Conjugation	2913	M	••	••	* per dot \$46.00
Conjunct	2914	10	••	•	- · · · · · · · · · · · · · · · · · · ·



Braces-Ratchet.

Conjunction	2916	6-	inch	sweep.	, per d	DR	36 86
Conjunctive			••	••	**		33.00
Conjunctly	2918	10	••	**			36.00
Conjuncture	2919	13	••	•	•-		39.00
Conjuration	2920	14	••	•	••		42 80



	•						
Conjure	2944	G.	inch	sweep	, per d	92t	10
Conner	2945			••	•		11
Connute	2946	10	••	••	••		12
Connect	2947	12	••	••	••		13



Draw Knives

lettere n	15085	12-	inch	blade,	cach.	er dex		11 50
<i>felcin</i>	i 5086	14	••	••	•	••	· · • ·	13.00



Saws.

Connected	1748	14-	ուրք	and saw.	per doz	16.00
Constrance	1749	16	••			17.35
Country	1750	18	••	••		. 18 75
Countrescy	1751	20	••	••	·	20.00
Connirent	1752	22	••	••	••	21.50
Conniter	1753	24		**		22.75



No. 15165.

Inspector's Tools.

Code Word.	List No.	List Price.
Modena	15165	Complete set in Morocco case, containing everything neces- sary for adjusting telephone apparatus, telegraph and stock-printing instruments,
600	- Carrier	etc\$ 5.50
Modesta.	15166	Case, only 1.50



Combination Handles.

Mohawk	15170	Large size,	complete	1.75

	Molton	15175	11 Tools, complete
No. 15175.			



	-		
12	Knife,	No.2	8.00
3	**	" 1	16.00



Porter's Wire Cutters.

The state of the s	Behold	3787	Porter's Easy Wire Cutters, will cut M-inch wire, such 5-0	0
	Beholden	3788	Porter's Easy Wire Cutters, will cut Minch wire, each 7.0	
No. 5787.	Bodily	3527	Heavy Wire Cutters, will cut	
Military.			Merinen and autorition - 5.6	п

WESTERN BLECTRIC COMPANY.

	·			Cold Chisel.	
	No. 13180.	Code Weed. Momenco Mona Moncure Monclose	15180 15181 15182	だ。 ※・inch	3.06 3.75 4.50 5.25
	No. 15185.	Nonster Mondamin Mondola	15185	et Framing Chisel.	10.00
	No. 15190	Nonnes	151 90	Brick Drills.	18.00
	No. 15191.	Monettu	15191	Hollow	10.00
	No. 15192.	Yoneka		Floor Groovers.	. 12. 0(
<	No. 15193.	Monnette	15193	With removable knife	14.0
<		Monon	15195	With sinker	20.0
	No. 15195.				



No. 15200.

Tool Belt.

Code Word	List No.		Each
Monongah	15200	******************************	\$ 1.25



Linemen's Tool Bag.

Monroe	15202	Leather	****************	3.75

Tape Lines.

Sole Leather-Cases.

Monsin Montague	15206	100				***********	31.80 50.40
		sses S	skin,	Brass	Bound	Case.	
Montandon	15210	25 Feet	per di	oz		Service Office	 5.00

Montandon	15210	251	edp	er doz		ě						-		(A)						5.00
Montelair	15211	50		*				8	۷.	×			K.)		ü	v.				8.00
Montbello	15212	75		**	14		į,													10.00
Montello	15213	100		10																12:50
,44.01.0	10215	,00									7	*					1	1	-	12.01



No. 15205.

Line-Tapping Clamps.

Monterage	15215	4000010		********			4.00
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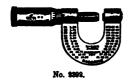
No. 15216

Pole Counter or Tally Register.

Monterale 15216	services.		3.00
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rd Wire Gange, 0 to 31. each. . 323 8" 36, " .. 28 1" 36, " .. 25 6" 30, " .. 15 strainedly 8626 English



2392 Microtneter Caliper measures from .001 to 1

2393 Micrometer Caliper, measures from .001 to 1 inch, in morocco case, each......



Constraint 2527 Micrometer Caliper, measures from .001 to .5

2528 Micrometer Caliper, measures from .001 to 3

. .



No 2005

Soldering Apparatus and Supplies

W. E. Soldering Salts.

Arbitrata Arbitratar Aronda	3205 3206 3207	In In In	t	pound	bottles,	per pound	\$0.75
		uste	5 3	belog	in a sol	t, plastic	Paste.

sufficient for the purpose. After an application of this paste the solder flows easily. The paste will not tarnish or corrode the metal.

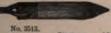
Sommitter	24407	0. DK	and	boxes,	per	pound	 0.3			122	1.40
Solemnly	24458	1		*			 	 	 		1.30
STEA											

Corrective Continued and History
Titure for meson, acide and
optograms hards
ALL ELECTRIC WORK
No. 24450. Sol

The Allen Soldering Stick.

Star Soldering Stick.

Aryustics	25596	Per stick			2.44		- 1	.25
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Soldering Coppers, Pointed.

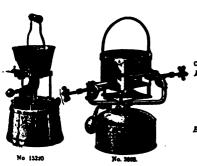
					-		Service Services	
Blustrous	3513	21	pounds	to the	pair, per	pound		.48
Bear			86	46		15	**********	.48
Roard	3515	4	44	44		M	*******	.48
Boardable	3516	5	4	4				.48
Rourded	3517	6	al.	N.		W -		.48
Boarding	3518	7	-16			ar.		.48
Roast	3519	8	H	44		16	************	.48
Boaster	3520	9	11.	40		34		.48
Boastful	3521	10	AL.	14		24		.48

Solder. At LOWEST MARKET PRICES.

V. 200

ncoler 3338 Strictly Half and Half

No. 3339,



Soldering Apparatus—(Continued).

Code Word. List No. End.

Moniceides 15220 Combination Hos Biast Furusee...... \$18.88

Holds 1 gallou of oil

Charcoal Soldering Furnace.



Combination Soldering Torch.

For Alcohol.

This torch can be carried in the proket or tool bag. The handle contains a vial for acid, doing away, with carrying an extra acid bottle. The blow-pipe is adjustable and the wick large. It is made entirely of brass and highly polished.

Montecello 15236 Wellington Torch...... 7.59



No. 15230



Soldering Apparatus—(Continued.)

Imperial Hot Blast Gasoline Blow Torch.

This torch is made especially for burning paint, thawing pipes, burning lead, etc. It generates a blue flame of 1500 degrees F. The size and power of the flame canbe increased or turned down to suit the work. The tank holds I\(\frac{1}{2}\) pints of gasoline, and is made of the best drawn brass, of 18 gauge, is seamless and highly polished. The diameter of the tank is 4\(\frac{1}{2}\) inches, and the height to top of burner is 9 inches. It weighs 3 lbs. It is equipped with a brass pump, which has strong detachable connections, and a simple accessible valve. The torch will burn in any position, and consume \(\frac{1}{2}\) pint per hour at full blast and will not blow out in the wind. The tank has a coneshaped bottom, giving additional strength. These torches are fully tested and warranted,



No. 23117.

Code Word. List No. List Price.

Braziers' Hot Blast Blow Torch.

For Gasoline.

For brazing and tempering small tools and springs, soldering patterns, and aonealing brass and other metals, heating soldering coppers, glue, burning off paint, gen-eral bench, furnace work, etc.

Simplier 23117 Braziers' Torch 6.00



The Combination Hot Blast Blow Torch.

For Gasoline.

Three useful tools in one: a brazier, soldering iron heater, and blow torch for plumbers, electricians and conduit workers. Will not blow out.

Simply 23118

6.00



Soldering Apparatus-(Continued)

Code Word. List Ro.

Montecides 15220 Combination Hos Biast Furuses..... \$1600

Holds I gallon of oil

Binominel 3868 Helper's Firepot. Can also be used at



Charcoal Soldering Furnace.

Combination Soldering Torch.

For Alcohol.

Montecello 15230 Wellington Torch.

tains a vial for acrd, doing away, with carrying an extra acid bottle. The blow-pipe is adjustable and the wice large. It is made cultivity of brass and highly polished.



No. 15230



Soldering Apparatus—(Continued.)

Imperial Hot Blast Gasoline Blow Torch.

This torch is made especially for burning paint, thawing pipes, burning lead, etc. It generates a blue flame of 1500 degrees P. The size and power of the flame can be increased or turned down to suit the work. The tank holds 1½ pints of gasoline, and is made of the best drawn brass, of 18 gauge, is seamless and highly polished. The diameter of the tank is 4½ inches, and the height to top of burner is 9 inches. It weighs 3 lbs. It is equipped with a brass pump, which has strong detachable connections, and a simple accessible valve. The torch will burn in any position, and consume ½ pint per hour at full blast and will not blow out in the wind. The tank has a cone-shaped bottom, giving additional strength. These torches are fully tested and warranted.



Code Word. List No. List Price. Each. Simplify 23116 Imperial Torch. \$5.00

Braziers' Hot Blast Blow Torch.

For Gasoline.

For brazing and tempering small tools and springs, soldering patterns, and annealing brass and other metals, heating soldering coppers, glue, burning off paint, general bench, turnace work, etc.

Simplies 23117 Braziers' Torch...... 6.00



The Combination Hot Blast Blow Torch.

For Gasoline.

Three useful tools in one: a brazier, soldering iron heater, and blow torch for plumbers, electricians and conduit workers. Will not blow out.

Simply 23118 6.00



Soldering Apparatus—(Continued)

The Electric "Hot Blast" Blow Torch.

Code Word.	Lin No.			Lat From
Similar	23119	Hot	Blast Torch.	3 450



No. 23120.





Ng. 23120 and 23127.



No. 23134.



No. 23132, and 23134,

	Rep	air Parts to Torches.
Simulate	23120	No. 1. Air Pump, complete for Hot Blast Torches. Imperial Torches Brazier's Torches Combination Farnases.
Simulty	23121	No. 2. Lower Bracket for Pump
Sin	23122	No. 3. Upper Bracket for Pump N
Sinnie	23123	No. 4. Burner for Imperial likes Torch, complete
Similie	23124	No. 60. Burner for Brazier's Blos Torch
Simple	23125	No. 2. Filler Cap for Blow Torbes 2
Simpline	23126	No. 10s. Needle Value Seat for In- perial and Brazier's Torch.
Stample	23127	No. 10b. Needle Valve Seat for Com- bination and Tinner's Furnier
Simplem	23128	No. 11st. Large Packing Not tor in- perial Brazier's Torches
Since	23129	No. 120. Large Drip Cup for Im- perial and Duplex Torches, and Com- bination and Timer's Furneces
Sindon	23130	125. Large Drip Cup for Bracen Torch
Sine	23131	No. 14. Air Valve for Serve and Packing Not for Imperial and Bras- ier's Torolles
Sinimum	23132	No. 16. Perforated Barurr Tule 3st Imperial Turch
Sinepila	23133	No. Plg. Perforated Burner Tabe by Brazier's Torch
Since	23134	No. 20. Needle and Packing Notice Imperial and Branier's Torries 30

ation and Workmen's Supplies.

Tage.

10 4 8 1 . 13 . en () wood



			j. **
Code Wash	Les Se		81 1
Boundet	3636	المساوان مغز الأصاف المتحاصلية مرا	1 44
Boundone	3639	· V.10	/
Bearry	3646	COMPLEAN JULY	
Been	3641	· Walle "	4 44
Bearinger	2642	Chindo swa	1 44
Bosnood	3443	Materia their	1 44
Bounful	2644	* * 10	44
Bounfly	36.45	French July "	84
Bezzgner	2444	Total New 1	44
Beer	3647	* **	**
Calamity	3423	Carenes Taya.	
Crossed	8744	Krete . gar 11.	**
8elas	24444	Antipun Brown Tay yo your	74
Belmeren		Caten Tree	74
Belonarens			/4
Calca and		w w u	44

Splicing Compound.

Hears	3731	Chattert	⊘n's Ame	maa, p	es prood		. 1.66
Beerable	3732	-	lmp	orted		••••	9.00
Beerl	3733	Tenax 8	plicing C	ompous	d, in rolle	per pound	
Bolonte	24464	Para	•	*	4		1.26



Soldering Apparatus—(Continued).

Code Word. Derouring	Weish Blow Torch, each	Lat Prov \$ 6.00



Uhlich Soldering Pot.

15245 Each,



8650 Lineman's Torch, tin, cach..... Christopher 8651 " " brass, each 280



No. 2550.

2550	Solder Ladles,	31/2	inch.	per dozer	·	275
255 i	••	3	**	-		3.50
2552	4.	4	**	••		4.75
2553	••	3		••		6.50
	255 i 2552	2551 " 2552 "	2551 " 3 2552 " 4	2551 " \$ ··· 2552 " 4 "	2551 " 3 " - 2552 " 4 " "	2552 " 4 " "

Solder Pots.



3507 6 inch diameter, per doxun....... Blushfullg Blusking Blushices Bluster Blusterer

...

5.50

10.00

12.00 16.00 Dhustering

ation and Workmen's Supplies.

Tape.

In 1/4, 1/4, 1, 11/4, 2 and 3 Inches.



Code Word.	List No.					Li	st Price
Beamlet	3638	Grimshaw, black, p	er pound	1			\$1.10
Reamtree	3639	" white,	u		• · • • •		1.00
Beamy	3640	Competition, black,	4		[.]		.75
Bean	3641	" white,	4			. 	.78
Beancaper	3642	Okonite, black,	"		<i>.</i> .		2.00
Beancod	3643	Manson, black,	4 .				1.40
Beanfed	3644	" white,	4				1.40
Beanfly	3645	Paragon, black,	4			.	.60
Beangoose	3646	Tenax, black,	4			 	.60
Bear	3647	" white,	4			.	.60
Calamity	3623	Century Tape,	4			.	.90
Creased	8746	Kerite " per	roll				.95
Bolen	24460	Sampson Friction T	ape, per	poun	1 ,		.79
8olenacean	24461	Clifton Tape,	• • •	٠			.78
Solenaceous	24462	Simplex,	•				.78
Solenes	24463	RWH		4			.81

Splicing Compound.

Bears	3731	Chatter	ton's Ame	erican, p	er pound.		. 1.60
Bearable	3732		Imp	orted	" ,	· • • • • • • • • • • • • • • • • • • •	. 2.00
Beard	3733	Tenax 8	plicing (om poun	d, in rolls	, per pound.	. 1.60
Bolenite	24464	Para		*	4	" .	. 1.25

No. 24438.	

Gale's Commutator Compound.

Cròlius Commutator Compound.



Kester's Commutator Compound.

No. 8701.



Hoffman's Rod Polish.

Will not wear the lamp rod. It is in the form of a powder, put up in tin boxes, and easily applied.



No. 24142.

Rubber Gloves.



WESTERN ELECTRIC COMPANY



Hard Rubber Sheet.

Size of Sheets 20x48 inches.

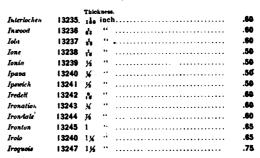
Code Word.	List No.	Thickness.	À pproximate weight of full sheets.	List Prior. Per Pound.
Hyatteville	13210	d inch	11/2 pound	\$ 2.10
Hyndman	13211	ı. "	2½ "	2.00
Hyndorille	13212	å ··	3% "	2.00
[berin	13213	, · · ·	434 "	2.00
[camole	13214	у "	51/2 "	2.00
[dalia	13215	۸ "	6 "	2.06
[dinoild	13216	A "	7% "	2.00
Ignacio	13217	ж	10% "	2.00
Ition	13218	4 "	181 "	2.00
Illiopolis	13219	36 "	10% "	2.00
Independence	13220	· ·	18% "	2.00
Indianola	13221	× "	32 "	2.00
Ingrams	13222	. ·	24 "	2.00
Ingalle	13223	* "	27 "	2.00
Ingalton	13224	¥ "	32 "	2.00
Ingersoll	13225	34 "	35 "	2.00
Ingleside	13226	,-	40 "	2.00
Inkecter's	1 3227		50 "	2.00

Vulcanized Fibre Sheet.



Indian Red or White.

For convenience in shipping we prefer to cut sheets in halves or quarters



Black, 5 cents per pound advance.





Insulating Paints.

Capitation	3347	P. & B.	Paint,	1 gallon cana	, per gall		1.56
Cu pit vlate	3348	**	••	8 "	44		1.40
Сарыя	3349	••	••	barrel lots,	••	••••••	1.35

Armalac.

	For Inc	ciating Field Magnets	and Ar	matures.	
		alkali and waterproof. Unexcelled and unvarying			
Code Word. Command	8728	Armaisc	\$1.65	\$1.75	0 <u></u> \$2.88
		Insullac			

presenting great insulating		
ance to lubricating oils, only.	Dilute with	insuliac thinaer
outy.	Bhin. Per Gal.	Half State

	only.		Plate. Per Cal.		(2004
Copyist	8729	Insuliac	\$1.65	\$1.75	\$2.00
		-			

Insulac Thinner.

		A Duutant for Insuliac.				
			r On'	Heaf State	Chat	
Gertrude	8881	Insuliac Things \$1	.35	\$1.45	\$1.70	

Enamelac.

For producing highly-lustrous, smooth and waterproof

	servative		#000 O	r irou.	CBCXCEIIEG	as a pr	•
Copyholder		-	elac	·····	Per Uni. \$0.80	50.90	7am \$1.00



Waste.

. nak	3999	Best Quality Cotton Waste, per pound

Crocus Cloth.

COUPIN	87261/2	Per Sheet	, 96 , 96

Asbestos. 8727 Ashestos Paner to solle s

•••	0/2/	whoman tabet at total bat board



Standard Price List Electrical Mica.

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Galvanized Oil Waste Cans.

Self-Closing Cover.

WITH IMPROVED SPRING ATTACHMENT.

The "Iron-Clad" Oil Wagte Cans are made without the ess of Solor est are galvanized after being put together. They are recommended by the leading insurance companies.

Code Word.	List No.	Round.	IN THE
Ancestral		No. 1, 112x15 inches, per doz	\$18.00
		_	

Round.

Dab	554	No.	2,	12x18	luches.	per de	24.00
Dabble	555	- 14	8,	13x20	-64	- 44	28.00
Daft	556	- 11	4.	14x23	**	-44	36.0
Dagger	557	44	5,	16x24	14	**	42.0
Daily	558	**	6,	18x26	- 64	**	
Daintily	559	**	7.	2ux80			90.0
Daisy	560	**	8.	24×36	- 45	11	

Rectangular.

Daker	561	No.	30,	per don.	in. 20	Width. Jn. 15	Impth in 20	70.00
Dale	562	**	40,	**	20	18	24	90.00
Dally	563	. **	50,		24	20	30	Jan. 132,00
Damage	564	- 11	60,	26	26	22	20	140.06
Damaging	565	10	70,	**	28	24	84	170.00
Dantask	566	**	80,	*	30	24	36	190.00

The Model Oil Filter.

It can be operated with or without heat, although it is preferable to the heat at all times, as it greatly facilitates the flow of oil, and united is experating it from all sediment, gril and dirt.

The steam heating pipes are independent of filter. We pikes them on top of the stand, under the filter, where the coil gives sill the heat required and can be easily connected or disconnected. By doing this we read at trouble that is caused by defective and leaky joints where aims a piper partering that of filter.

It is self-cleaning, as it is so constructed that all dirt, grit and soluted in the oil as it passes through the separating chambers is trapped to the bloom and is drawn off through a waste cock.

The surphly of waste oil to separating chamber can be regulated to held fast or slow. All heavy or gummy oils require more time to filter than fight oils.

It can be used for an oil tank, for the clean oil chamber is large used

to work my		3
Blown	3454	10 gallons,
Blubber	3455	
Blubbered	3456	
		Larger Sizes Made to Order.







Oiler Sets.

List Price			List No.	Code Word.
■	Pieces,	Five	3834	Bleesing
9.0	**	Six	3835	Bleet
kel 8.0	••	Five	853	Blight
	••	Blx	854	Blighted



Engineers' Fillers, Brass.

Engineers' Fillers, Steel.

Brass.

Blistery	3450	1; Pint Fillers, 4; in. diameter, 4 in. high, Screw
		Top, per dog22.00
Blithe	3451	Quart Fillers, 5 in. diameter, 5 in. high, Screw
		Top, per doz



Hed	384U	Steel Oller,	44 m	. diam.,	8 10	. nozzie,	per do	z .	9.25
Blookiak	3841	••	41	"	9	•	••	1	0.50

Brass.

Bless	3842	Brass Offer	s, 41 in. di	am., 8 in. nozzi	e, per dos12.6
Blessed	3843	**	44 "	9 "	14.0



Oller Sets-(Continued).

List Ko

List Print

3846 Steel Oller, 22 in. diam., 22 in. nonzie, per dez. 3433
3845 " 22 " 3 " " . 5.30
3846 " 26 " 9 " " . 5.30
3847 " 38 " 3 " . . 7.30 # " # " · ,. 8.50 9

rı, Ma.di " .. 2.00 " .. 3.20

Upright Locomotive Offer.

The flow of oil from this is controlled by a valve so the oil only run \leftarrow when you press the thumb piece on top of the handle.

Blasting

Blastpipe

No 8932

Brass.

3852 1 Pint, Brass, with valve, per dos a.....X# 3853 9 " " 3854 8 " " Blasted48.00 " Blaster

3854 8 " " 3855 1 " " 3856 3 " " 3857 8 " "24.00 no valve ••

Tie.

3859 2 " 3860 8 " Birchen48.00 3861 1 " 3862 9 " " no valve, Bird12.00 Birth21.00 Riancha 3863 8 "33.00

Railroad Oiler.

Steel.

Biographer 3864 Pint R. R. Ofler, 33 in. diam., 5 in. high, 13 in.

3865 Quart R. R. Oller, 41 in. diam., 6 in. high, 18 in.

Brass.

Biographical 3866 Pint R. R. Oller, 38 in. diam., 5 in. high, 13 in. Biography

nozzle, per donen......21.00



CONSTRUCTION MATERIAL.



No. 2348

No. 2349



No. 1855

Insulators-Glass.

Code Word.	List No.	List Price
Elm	2348	Regular, per 1,000\$40.00
		Packed 250 in a barrel.

Elegioment 2380 Western Union, per 1,000....... 50.00
Packed 200 in a barrel.



No. 2351

Insulators-Glass-(Continued)

Eloquenee 2351 Pony, per 1,000

Packed 800 in a barrel.



No. 2353

Eloquent 2352 Double Petticoat, per 1,000

Packed 165 in a barrel.



No. 5572

3872 Deep Groove, Double Petiticout, per £,000. 5£.00 Pecked 175 in a barrel.



Insulators-Glass-(Continued).

Code Word

List Price. 3719 Extra D. G , D P., per 1,000...... \$50.00

Packed 165 in a barrel.



Danshers 2354 Pony, Double Petticoat, per 1.000, 27.50

No. 2354







No. 15801.—

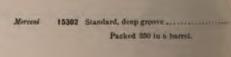
Insulators-Glass-(Continued)

Hemingray.

Packed 250 in a barrel.



No. 15302.-





No. 15305.

Morganion 15305 Deep groove, double petticoat

Packed 200 in a barrel.



No. 15308.-

Insulators-Glass-(Continued).

Hemingray.

Morlan 15308 Street railway, deep groove, double petti per 1,000. Code Word, List No. coat \$ 50.00

Packed 200 in a barrel.



No. 15310.-

More 15310 Western Union Double petticoat, teat 50.00

The points or teats on the lower rim of the petticoat attract the water on the outer surface of the insulator into drops. The water drops from these points, thereby preventing the moisture from creeping up on the inner petticoat, and thence to the pin.

Other insulators can be made in same manner at special prices.



No. 15812.-

Morell

15312 Pony

Packed 300 in a barrel.

..... 23.00



No. 2336

Insulators-Glass-(Continued)



No. 9200-Open.

Emulating 9200 Glass Oil Insulator, complete, from pin, per 110. 88.86
Emulation 9308 " " wooden pin, " \$6.66

The price for No. 0200 includes 10 quarts of ell and 4 pounds of hemp or oakum, and for No. 0006 includes 12 quarts of ell.



No. 9015.



Insulators-Glass-(Continued).

6793 Double Groove Glass Insulator, per 1,000.....\$82.00

No. 6793.



No. 1, Glass Insulating or Break Knob.

14 inches long, 14 inches wide, 4 inch hole.

2337 Per 1,000...... 20.00

No. 2. Glass Insulating or Break Knob.

12 inches long, 2 inches wide, # inch hole.

Emptying

2338 Per 1,000..... 30.00



No. 3, Glass Insulating or Break Knob.

For insulating span wires, guy wires, are lamps, etc.

21 inches long, 2 inches wide, # inch hole.

Empurple 2339 Per 1,000 40.00



Glass Insulators.—(Continued.)

Break Knob.

Takes a One Inch Cable. List No. 24465 Per 1,000

32 in. long; 22 in. wide.

Liquid Insulator.

Solere 24446 Per 1,000 500.00 Made all in one piece,

Weight, per piece, 304 oss. Weight; per 100, packed, 2210 bs.
Packed 100 in a barrel.

Locke Triple Petticoat Insulators.

For High Voltages,

China Insulator. 24467 Each





Glass Insulator.

Soleship 24468 Each

Dimensions:—Diameter, 42 luches; height, 31 leches; % luches of surface between wire and pin.





No. 24467.



Insulators-Porcelain.

The dimensions are as nearly accurate as possible, but owing to the fact that porcelain shrinks when baked, and the shrinkage is not at all times the same, Insulators may be a little larger or smaller than figures given.



Code Word. Blissful

R. T. & Sons No. 7. I in. wide and I in. high. Groove, A in. deep, I in. wide.



Blimless

3460 Per 1,000..... 3.60

R. T. & Sons No. 6. | in. wide and | in. high. Groove, in. deep, J in. wide.



Bilge

1928 Per 1,000...... 4.00

R. T. & Sons No. 8. 17c in. wide, 18 in. high. Groove, 1c in. deep, 1c in. wide



Bileduct

Bilged

1929 Per 1,000...... 4.00

R. T. & Sons No. 11. 14 in. wide, 14 in. high. Groove, 4 in. deep, 4 in. wide.



1930 Per 1,000.... 5.00

R. T. & Sons No. 9. § in. wide, 1§ in. high. Groove, $\frac{1}{18}$ in. deep, § in. wide.



Blueness

3462 Per 1,000..... 5.25

R. T. & Sons No. 5. 1 1 in. wide, 12 in. high. Groove, 15 in. deep, 15 in. wide.

About 5000~No.~3~fill~a~barrel.~500~are~packed~in~boxes. When packed in boxes 50 cents extra per 1000~is~charged.



No. 3464.



Insulators-Porcelain-(Continued.)

Code Word. List No. 3464 Per 1,000, in barrel lots....... R. T. & Sons No. 4. 1 to in. wide, 14 in. high. Groove, 4 in. deep, 4 in. wide,

About 2,000 to 2,300 make a barrelfull. 500 fill a box. 50 centers per 1,000 charged when packed in boxes.



No. 2575.



Dearon

2575 Split, per 1,000 Special Split Insulator, 12 in, wide, 13 in high Groove, 1 in, deep, 4 in, wide.



No. 1923.



1923 Per 1,000

R. T. & Sons No. 10. 14 in. wide, 12 in. high. Groove, A in. deep, ⊈ in. wide.



Blunder

3466 Per 1,000

R. T. & Sons No. 36. 111 in. wide, 14 in. high. Groove, ‡ lu. deep, ‡ lu. wide.



Insulators—Porcelain--(Continucd.)

 Code Word
 List No
 List Price.

 Hunbbering
 3468
 Per 1,000
 \$20.00

R. T. & Sons No. 15. 118 wide, 18 high. Groove, fe in. deep. 8 in. wide

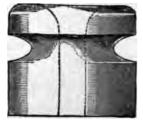


No. 1924.

 Duzzio
 1924
 Per 1,000
 20.00

 •
 R. T. & Sons No. 24.
 1½ in. wide, 1½ in. high.

 Gruove, ½ in. deep, ½ in. wide.



Bilious

No. 1986.

· . • •.



Insulators-Porcelain-(Continued.)

List No.

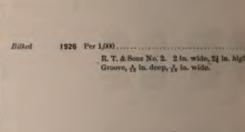
3470 . Per 1,000.

R. T. & Sons No. 26. 2 to wide, 1 in high.

Groove, & in, deep, to wide. Code Word. Bluffness



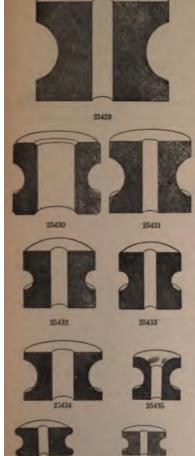
No. 1926.





No. 1927.

Bith 1927 Per 1,000 R. T. & Sons No. L. 2 in. wide, 3 in. hig Groove, 4 in. deep, 4 in. wide.



Special Porcelain Insulators.

The figures as to dimensions and weight of Insulators is as accurate as the nature of porcelain will allow, and in actual practice results may vary a tride,

Accessoriaese 25430 P102 Insulator 24 inches high; 24 inches wide; 14 inch hole; i inch groove. Weight per 1000, 675 pounds. A barrel contains about 400.

Accessury 25431 P103 Insulator.
28 inches high; 24 inches wide; 7s inch hole; 14 inch
groove. Weight per 1000, 660 pounds. A barrel
contains about 400.

Accessibility 25432 Pi04 Insulator

1/c foch high; 24 loch wide; /c loch hole; \$ inch
groove. Weight per 1000, 380 pounds. A barrel
contains about 700.

Prices Quoted on Application.



Special Porcelain Insulators. - Continued.

Code Word. List No.
Accidentally 25440 P1 Insulators.

2½ inches high; 2 inches wide; ½ inch hole; ‡ inch word.

Weight per 1000, 500 pounds. A barrel contains shot 60

Arcidentaliness 25441 P2 Insulator

13 Inches high; 13 inches wide; \$ inch hole; \$ inch grown

Weight per 1000, 257 pounds. A barrel contains short 90.

Accipenser 25443 P4 Insulator

12 inches high; 1/2 inches wide; 2/2 inch hole; 2/2 inch grove
Weight per 1000, 200 pounds. A barrel contains about 200

Accipient 25444 P5 Insulator

14 luch high; 14 inches wide, 4 luch hole; 4 inch prove
Weight per 1000, 80 pounds. A barrel contains about 600

Accipiter 25445 P6 Insulator

| loch high; | loch wide; | loch hole; | loch groove. Weight per 1000, 30 pounds. A barrel contains about 3000.

Acclimatement 25448 P9 Insulator...

15 inches high; 8 inch wide; % inch hole; % lach grove.
Weight per 1000, 26 pounds. A barrel contains about 9000.

Acclimature 25450 PI51 Bushing length under head i lach; juck wide; j luch hole.

Accileous 25451 P152 Bushing length moder head 4 inch; \$ isch wide; \$ inch hole.

decloy 25452 P153 Buthing length under head # inch; #inch; wide; # inch hole.

Account 25453 P154 Bushing length under head # lach; || laches wide; | lach hole.

Accel 25454 High Potential Insulator, hard turned and thoroughly vitrified.

Prices Quoted on Application.



Insulators-Porcelain-(Continued).

Wiring Insulator.

		******		•		•••				
Crde Word.	List No.								u	st Price.
Enabling	1	Glazed, for	No	. 6	and No	8 (wire	per 100	• • • • •	\$2.40
Enact	11%	Unglazed,	••	6	**	8	**	••		1.50
Enacted	2	Glazed,	••	10	to No.	16	••	••		1.80
Enacting	2 1/2	Unglazed.	••	10	••	16	••	••	· • · • •	1.20
	-									



No. 8907.

Wiring Insulator for Large Wires.

The Insulator will hold insulated wires or cables from † to ‡ inch outside diameter.

Emulates	8907	Glazed, per 100	· · · · 7.50
Enable	8908	Unglazed, ",	4.50



No. 8909.

"Economic" Insulators.

This is a modification of Nos 1 and 3 Wiring Insulators. By an improved construction it is, without ascrificing strength, made much smaller, and is therefore sold at a much lower price.

Emulgent	8909	For No.	1	wire and	smaller,	glazod, pe	r 100	1.80
Emulsion	8910	••	6	••		glazed.		1.20



Emulator

6580 Insulating Knob for wire, † in. dlam., per 100. 3.00

Mo. 6580.





P. & S. Circuit Breaker.

at No.	1						List Prins
			esch	per	100	***********	53.00
9	Large	**	**		-		5.00

9266 "Victor" Split Insulator, per 1000 - 35.00



Empowering 2341 Rubber Hook Insulator, each







P. & S. Guard Wire Suspension Insulators.

Solicitant 25000 P. & S. No. 60, Glazed

The "Safety" Wire Holder.

way	2566	No.	1.	with	ı	Inch	wood server, p	er 10	0	18.00
ester	2567	10.	2:	**	1	**	4	**	*** ****	10.00
exterity	2568	11	ti	WK.	N,	**	**	7		
vaterous.	2569	11	2,	24		100		84		10.00
ladem	2570	31.	T.	-15	×	100	traclibe screw	. **		10.00
lagonat	2571	60	2	An	•	-	*	**	********	
ingram	2572	- 11		-10	n	44	wood arrew.	14		15.00
lat	2573	-10	2	**	13	. 22	-			15.99
Value!	2574	11	2.	**	п		machine serve	. **	Astmited	



No. 8742



The Security Insulator.

List Price. 8742 Security Insulator, 12 x 14 inch. No. 2 to No. 13 Luminous

Combination Fixture Cut-out and Outlet Insulator.



No. 24.

china plate, and it is impossible for them to touch the gas pipe or the lath or plaster. It is fitted with brass work for connecting the wires or fuses, and is furnished either with fuse plugs, which cover the fuses, or may be fused in the ordinary way.

As will be seen by the cut, it is fastened to the lathing, and when the plaster is put on, the Cut-out projects alightly through it. The wires pass through holes in the

64 Each 26 Fuse Plugs, each. .05 We also furnish the China Plate for No. 64 with three holes for wires, to be used without brass work. 64# Each..... .11



Outlet Insulator.

Small curved china tubes for outlets, which effectually insulate wires from the gas pipe and lath and pizzter. They are fastened to the pipe with tape in the usual way, as shown in the cut.



Corner Insulator.

For the protection and insulation of heavy wires and cables when passing around corners or over cornices. It has a hole large enough for an insulated wire # inch outside diameter.



Tree Insulators.

East Print. Elite 9301 Simplex Tree tanulator, each









The Cutter Swinging Tree Insulator.

It is readily hong from a hook or wire twisted through the loop at the top, and by lengthening this wire the device will adapt itself to a wide range of conditions. It can the be used for supporting are light wires under iron roofs.

The cut shows our No. 9 Circuit Breaker used as a Tree Insulator.

Emptiness 9 P. & S. Tree Insulator, per 100

Gem Wire Holders, with Bolt and Nut.

Wood Insulation. Effort Efrontery 2854 ± " " " 12.00

Porcelain Insulation.

Effulger#	2855	4	inch	opening.	per le	10	 12.0
Efun	2856	1	*	**	17		12.0
Effusion.	2857	м	in	47	400		17.5

Gem Wire Holders, with Bolt and Nut-

				(Conti		•
		0	paler	cent G	ass In	sulation.
Code Word.	List No.					Elect
Efraire	2858	ł				00 . \$2
Egbert	2859	ı	**	••	••	2
Egg	2860	ŧ	••	••		
Egotiem	2861	. #				
Egotist	2862	1				
Egress	2863	14				<u>6</u>
Egyptian Either	2864 02865	1 i	••		•	
Buter Bject	02866	3 15	••		••	8
Zyrri.	02000	•				• • • • • • • • • • • • • • • • • • • •
Gen	n Wir	e	Ho	lders,	wit	th Wood Screw.
			Po	rcelain	Insula	ition.
Ejected	481					00
Becting	482	ŧ	••	••		
Mection	483	ŧ	••	••	••	
	These	₩i	re Ho	ders ar	e suitab	ole for indoor or outdoor
Bjoctment Blaborate Blapse Blastic	487 488 489 490	*		opening 	, per 10 	
Blasticity	491	1				· 2
Elute.	493	1+				
Blated	494	1				
Elation	484	14		••		
Elbow	485	2	••	••	••	
	are suits	ble	her C	very des	iloide	ers, with wood insulation, n of inside work, but are
	not reco				, per 10	ve. 00
Elderly	478				••	
Elderly Eldest	478 479	ŧ				•
	479		ree	" W	/ire	Holder.

By passing a wire through the hole in boss of the "Tree" Wire Holder, it can be adjusted to any desired position.



"Jumbo" Wire Holders.

Opalescent Class Insulation.

The Fletcher "Jumbo" Wire Holder is sufficiently rong to support a heavy cable, and adds materially to the nest appearance of wiring work.





Gem Wire Holders.

496 Gem Wire Holder, per 100 18.86



497 Gemi Wire Holder, per 100..... 5.50

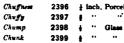


498 Gem Wire Holder, per 100 6.50



Insulated Wood Risers.

The Fletcher Insulated Wood Risers are used in fitting up electric light stations and power houses with wire or copper rods. 2396 & inch, Porcelain Insulation, each.....



2403 11

2404 1

2399 # " Church

Churchdo Churching

Churchland

Churchman

2400 \$ 2401 -2402 1

•

••

,40



The Fletcher Wiring Pendants.

A very neat and strong device for wiring are and incandescent lights, indoors or out. Length, 5 inches; diameter of base plate, 5 inches.

Code Word.	List No.					LA	st Price.
Chud	6798	Fletcher's	Wiring	Pendant,	with screv	v, each	\$0.15
Chuff	6799	**	**		screw bole	M, "	.15

Fletcher's Insulating Iron Pin and Bracket.

These Iron Pins or Brackets are used on poles and crossarms for running electric light lines or electric street railway feed wires, and do not require tic wires, which might injure the insulation or she line or feeder wire.

1

Fletcher's Insulating Iron Pin.

293	1 4	Inch.	Glass Insu	lation, each		40	 		 v.	.25
293	2 1	**	41				 			.25
293	3 1	**		**		 65				.30
293	4 4	**	**	**	500			,		.30
293	5 4	**	**	66	**	 -			 6	.30



Eletcher's Insulating Icon Bracket.

	FI	etcher's	Insulating	g Iron Bracket.	
Emphasias	1857	# loch, G	dass Insul	ation, each	30
Emphasizing	1858	# "		"	30
Empire	2923	+ "	11.		40
Empirio	2924	1 "	11	W parameters	40
Empleied	2925		**	**	40



Porcelain Wire Holders.

2344	Per.	1,000.	 	 	27	7.75



Elias

Electrify

2345 Per 1,000...... 90.00



Porcelain Wire Holders-(Continued)

SISSUE SISSUE



2347 Per 1,000

Cleats, Porcelain.

The Duggan Cleat,



1157 Glazed, will take wire No. 8 to No. 16, per 1,000, 45.00 Bequeathing 1159 Glazed. " " 0 " 00, -Dilateral - "16 and " 18, " 1161 Glazed. Bilbo



No. 3415.

"P. & S." Single Cleat.

This Cleat is designed for use where wires are required to be separated more than 24 inches.

3415 Glazed, for wires with insulation 4 to 1 job diameter, per 100.

3416 Unglazed, for wires with insulation 5 to 5 lock diameter, per 100.

3417 Glazed, for wires with insulation 5 to 5 lock diameter, per 100.

6800 Unglazed, for wires with insulation 5 to 5 lock diameter, per 100. 3.59 2.50

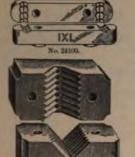


Elizir

Elliptic

"P. & S." China Cleats

3814	Glazed,	2 wire,	for No. 8 w	ire or small	or, per 100	2.80
3815	Unglazed.	2 "	11 B	-	M	2.59
3418	Ginzed,	B	· 8	141	-	3.84
3419	Unglaced.	3 "	" 8		**	2.50
3420	Glazed, fo	r No. 4	wire, per	100		4.50
	Unglazed,				consider.	1.99



I X L Cleat.

Code Word. Stiftered	Per 1,000	List Price \$20.00

Duggan One Wire Cleat.

Slight Slighten	24101	Holds Wires	No. 16 to No. 8, per 1,000 No. 6 to No. 00, "	20.00
Slighter	24103			60.00





No. 15825.

The Diamond Porcelain Cleat.

"W" Cleat.

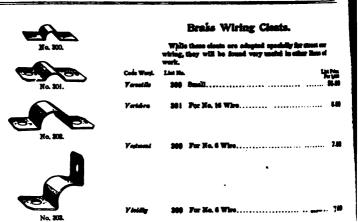
Marrice 15325 Per 1,000 20.00



No. 24140,

"P & S" China Cleat, Two and Three Wire.

Q	Sindge	24146	Two !	Wire,	glazed,	per	100	**************	3.50
	Mbrdger	24147	14	*	unglazed			*************	2.20
	Studgy	24148	Three	u	glazed,	,	4	residential date	3.50
7	Slun	24149		**	unglased		4	.,	2.20



Wood Cleats.



24122



Acq	

Emperor

Emphasis

	China Wiring Tubes.	
List No.		st Price
012	Hole for wire 5-16 luch ruse 5-8 inch bit to bore	
	joists), length I inches, per 100	\$1.8
013	Hole for wire to inch (use a loca bit to bore	
	joists), per 100	
13	Hole for wire # inch (use § inch bit to bore	
	joista), per 100	2.2
14	Hole for wire & inch (use 1 inch bit to bore	
	felicit con 100	2.0

China Cross-over Tube.

This tube has a head on each end and is designed to be used when wires cross over other wires. The heads tend to hold tube in position.



Empaling

130 # inch hole, 3 inches between heads, glazed, per 100..... 4.50 130% # Inch hole, il inches between heads, unglazed,

per 100..... 2.50



Acquist Edwin

1 Flidget" Wiring Tube.
013½ 1 5-8 inches long, 5-16 inch hole, 5-8 inch outside diameter; per 100.

1.50 8801 1 inches long, # inch hole, # inch outside diameter, per 103...... 1.60

Porcelain Window, Tube.

20 6 inches long, # inch hole, ungiazed, each..... Empaled 20½ 6 " I " glazed, " Empalement .09 Use I inch bit to bore holes for them.



Porcelain Window Tube, with Curved End.

This form of Window Tube has a curved end which effectually prevents any water entering through tube, and insures a compliance with the insurance rule requiring a "water loop" in wire. Use I furh bit.

371/ Unglazed "

37 Glazed Window Tubes, curved ends, each....

:05

Long Curved End Tubes.



This Tube has a hole # inch in diameter, and is 14 inch outside diameter. Price List of Each Size, in Cents.

LENGTH UNDER HEAD IN INCHES.	6	8	10	12	14	16	15
Unglazed	11	- 17	23	33	38	- 46	54

For any of the above furnished Glazed, add 25 per cent.



Code Word. List No.

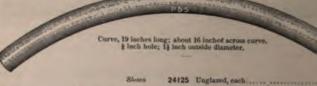
Kunclies 9327 Floor Insulator, & In. hole, 33 inch tube

No. 9327.

Awning Insulator.

This Insulator is used where a wire passes over an awning or cornice, or around the corner of a building, to protect the insulation of the wire from abrasium.

Long Curved Tubes, for Awnings, Cornices, Etc.



Large China Tubes, with Long Heads,

We carry the following sizes with heads 3 inches long, which can be used advantage ings are liable to come in contact with wires. In ordering always give both outside and im-

Price List of Each Size, in Cents.

LEN	OTH UN	DEB HEAD	IN INCHES	6	8	10	12	14	17
in hole,	2 in. o	utside diam	eter	7 8 18 18 18 22† 22†	12± 13± 27± 27± 33 33	154 164 324 324 39 39	188 196 376 376 45	214 224 420 424 51	50 60

For any of the above Glazed, add 25 per cent.

Large China Tubes.

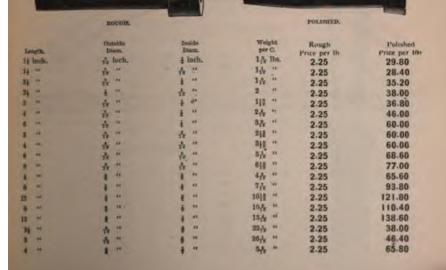
In ordering always give outside and inside diameter.

Price List of Each Size, in Cents.

		LENG	TH	IN	INCHES,		B	3	6		8	9	10	12	14	15	16	18	20	99	24
· · · · · · · · · · · · · · · · · · ·	B111111111111	hole.	1 1 1 1 1 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4	Terrestrates p	outside	diam	24 34 8 9 12 12 12 20 20	34	1720	8	6 7 16 20 20 24 24 40 40	8	8 9 20 25 25 30 30 50 50	14 15 30 36 36 42 42 66 66	17 18 35 35 42 42 49 49 77	19) 45 45	20 21 40 40 48 48 56 56 88 88	23 24 45 45 45 63 63 99 69	50 50 50 60 60 70 70 1 10 1 10	55 55 55 66 67 77 77 1 21 1 21	60 60 72 72 84 84 1 32 1 32

For any of the above Giazed, add 25 per cent.

Hard Rubber Tubing, with Heads.





Nos. 3816 to 3825.







Floor Insulators.

Glass Floor Insulators.

	List No.						MILES.
Bernard	3816	3. in.	filoor	ins. 15	in, hore,	with thread	\$70.86
Bertha	3817	1	9.5	1	16	44	70.50
Bertrain	3818	3	311	114	14	-	88.00
Benech	3819	1356	**	1	94.	-	75.00
Bescen	3820	4	35	34		-541	80.04
Beset	3821	A		1	**	100	10.00

Resiego	3822	435 In.	floor	ins.	ă.	tu.	bore,	with	sheed	10.00
Resignment	3823		-		1		*		+4	100.00
Revieging	3824	a	-		1		**			120.00
Bermoke	3825	-6	86		114		44		hat.	140.00
Besot	3836	352	10		34		100	no th	read	75.00
Bespeak	3837	6			í		112	aplit	thread	200.00

Acquiry	25599	3	inch	over	all,	# inch	bore	\$3.00	85.05
Acquisitor	25600	3	100	*	- 68.	2	-	3.50	55.00
Acquist	25601	4	H	34	34	8 'M	14.	5.00	75.00
Arquitment	25602	6	*	-	**	1 "		5.50	90.00

Floor Insulators, F. O. B., N. Y.

Porcelain Bushing.

THREE INCHES UNDER THE HEAD.

Blinkard	3472	For	36	inch	wire	**************************	75-80
Blinkers	3473	41	36	45.	16	***************************************	96.00
Bliss	3474	91	ı		45	***************************************	100.00
-							

China Floor Tubes.

Enactment	8899	4	luches long.	×	inch hole		5
Enactor	8900	4	- 11	1	*		
Enamet	8901	0		K			
Enameled	8902	.0		1	***		
Enameling	8903	4	**	136	44		
Enumer	8904	Ю	16	136	**	interest	
Enamored	8905	6	p-	156			
Enamoring.	8906			136	- 11		

Price List of Vitrified Clay Wiring Tubes.

Inches.	Diam. 5-16 In. Per 1000.	Diam. Se In. Per 1000	Diam. % In. Per 1000	Diam. 5-5 In. Per 1000.	Diam. k In. Per 1000.	Diam 1 in. Per 1000.	Diam 13 In Each.	Dram. 114 In. Each.	Diam. 14 In. Each.
1	7.50	7.00							
14	7,00	9.00	*****	*32*42		extent.	*****	FRANKS	*****
2	8,00	10.00	12,00	15.00	20.00	*****	****	0300X	20.00
21	9,50	12,00	15,00	*25 25	PY155	444.44	NA9 455	10110	299.534
3	10.00	12,00	15.00	18.00	23,00	28.00	*****	*** ***	
4	12,00	14.00.		22,00	25.00	35.00	,08	.10	,12
6	25.00	28.00	35,00	40.00	45.00	50.00	.10	.16	.20
8	32.00	40.00	50,00	54.00	10.00	70.00	.12	.20	,24
10	40,00	52,00	65.00	70.00	80.00	90,00	.16	.24	.28
19	70.00	80,00	90,00	100.00	105.00	130,00	.24	36	.40
14	90,00	100.00	105.00	120.00	130,00	155.00	.28	.42	.50
16	103.00	120,00	120.00	135,00	155:00	180,00	.32	.48	.60
18	120,00	132.00	135.00	155.00	170,00	200,00	.36	.64	. 65
18	135,00	145.00	150.00	175.00	185.00	225,00	.40	.60	.70
22	150,00	160.00	165.00	190,00	205.00	250.00	.44	.05	.80
24	165.00	175.00	180,00	205,00	215:00	275.00	.48	.70	.90

B. & T. White Porcelain Tubes.

Thin Walls. Straight. Absolutely Non-Absorbent.
List Price per 190.

Le	ug	th in in	ches	3	4	5	6	8	10	15	14	16	18	20	24
4	in.	inside	diam .	.78	1 10	1.53	1.95	3.00	4.00	6.00	7.00	8.00	9,00	10.00	14.00
ī		44	10	1.28						7.00					
ê	14	44	44	1.40						8.00					
ũ		44	*	1.80	1.95	2,80	3,50	5.00	7.00	9.00	10,00	13.00	15.00	16,00	20.00
1	14	-	it.	2.18	2.72	3.45	3.90	7.00	8.00	11.00	12.00	15.00	17.00	19,00	22,00
11	4	**	44		6.50		8.00	10,00	13,00	19.00	22,00	26,00		33,00	NV.00
14		-64.	46		8.00		13.00	16.00	19,00	28.00	34.00	38,00		47.00	56.00

Mouldings.

F. O. B. Chicago.

Price per 1,000 Feet, Moulding Only.

Capping one-half price of Moulding.

			-	
No. Wires. 2	Size of Grooves.	Unfinished Mahogany. \$20.00	Finished Mahogany. \$100.00	Unfinished Red Birch \$20.00
3	in.	120.00	150.00	30,00
	D-1		Adlan Onla	

Price per 1,000 Feet. Moulding Only.

	Capping one-half price of Moulding.									
No. Wires.	Size of Grooves.	Unfinished Soft Wood.	Painted Soft Wood.	Unfinished Oak.	Finished Oak.	Pinished Georgia Pinc				
1	å in.	\$6.00	#8.00	\$12.00	\$17.00	\$12.00				
2	į in.	7.50	11.00	18.00	24.00	20.00				
3	į́iο,	12.00	16.00	28.00	36.00	28.00				
2	A in.	9.00	13.00	30.00	28.00	22.00				
3	A in.	14.00	19.00	30.00	40,00	22,00				
1	d in.	7.00	10.00	14.00	22.00	18.00				
2	fin.	13.00	18.00	26.00	36.00	28.00				
3	f in.	20.00	26,00	38.00	50.00	40.00				
2	in.	14.00	20,00	28.00	40.00	30.00				
3	in.	22.00	30.00	40.00	55.00	45.00				
2	å in.	18.00	24.00	35.00	47.00	37 00				
3	in.	26.00	35 .00	47.00	65 ,00	55.00				
1	fin.	10.00	14.00	20,00	30.00	22.00				
2	g in.	22.00	28.00	40.00	55.00	45.00				
3	g in.	30.00	40.00	55.00	75.00	65.00				
2	1 in.	30.00	40.00	55.00	75.00	60.00				
3	1 ln.	45.00	60.00	82.00	110.00	90 00				
	~									

in. 45.00 80.00 82.00 110.00 Special Mouldings made to order on short notice.

Mouldings.

F. O. B. New York.

	anni (ili)	

		Description.		Outside Phone	豐	Las Prince per Las R	
Contemplator	386	A-1, complete, 2	wire	*	14	11.06	
Contempt	387	A-9, complete, 2		*	14	21.00	
Contemptible	388	A-3, bottom, 2		*	14	13.50	
Contemptibly	389	A-2, capping, 2	, "	*	14	7.50	
Contend	401	B-1, complete, 2	, "	*	íŝ	25.00	
Content	402	B-1, bottom, 2		Ä	12	16.00	
Contention	403	B-1, capping, 2		*	12	9.00	
Contentious	415	C-1, complete, 2		11	21	28.00	
Contentiess	416	C-1, bottom, A		**	2.1.	19.00	
Contentment	417	C-1, capping, 2		#	24	9.00	
Contents	429	D-1, complete, 1		*	24	40.00	
Conterminable	430	D-1, bottom, 2		Å	24	29.00	
Conterminous	431	D-1, capping, 2		Ä	24	11.00	
Contest	441	E 1, complete, 2	,	H	24	00.00	
Contestable	442	E-1, bottom, 2		ä	84	48.00	



Code Word	List 1	fa. L	et Price.
Charles	12757	Twist connectors for No. 4 wire, B. & S. gange.	
		per 100	\$9.00
Cheerry	18758	Twist connector, for No. 6 wire, B. & S. gauge,	•
		per 100	8.00
Chemicolly	18759	Twist connector for No. 8 wire, B. & S. gauge,	
m /.a		per 100. Twist connector for No. 10 wire, B. & S. gauge.	9.50
	10/00	per 100	7.00
Chemrite	15416	Twist connector for No. 12 wire, B. & S. gauge,	
		per 100	7.00
Chemodism	15417	Twist connector for No. 14 wire, B. & S. gauge,	_
~	15418	per 100. Twist connector, for No. 16 wire, B. & S. gauge,	7.00
		per 100	7.00
Charle	18761	Solder connector for No. 0000 wire, B. & S.	
		gaage, per 100	25.00
Cherialdag	18762	Solder connector for No. 000 wire, B. & S. gange,	
Charact		per 100. Solder connector for No. 07 wire, B. & S. gange,	25.00
	10/63	per 100	25.00
Cherryly	18764	Bolder connector for No. 0 wire, B. & S. gange,	
		per 100	20 00



Turn Buckles.

Corte 70 urs.	Lat Ma	Planeter of Persol. String	Longth of France.	Conferences Long Prince Park	ing bries
Rigulat	24129	te.		.46	.00
Aligakon	24136	ï	24	1.00	.46
Stepatop	24131	14	•	1.10	.40
Aligatring	24132	ï	\$	1.36	1.10
Aligant	24133	1,	A	1.50	1.26
Alue	24134		7	1 66	1.66
Alathor	24135	į.	12	2.75	2.46
Maronijara	24137	í	*	2.44	2.60
diamenia	24138	i	12	1 74	2.10
time	24119	,	•	1 56	2.74
the shark	24146	,	13	5.46	4.24
dissely.	24141		H)	4 24	1 40
Uneman	24142	ı.	#1	5 46	4 26
Alah	24143	1.6	14	744	£ 24
Shakkar	34144	14	l.e	2.25	6.25

Mouldings-(Continued). P. O. H. New York. 447 F-1, complete, 2 " 448 P-1, bottom, 2 " 439 P-1, capping, 2 " 453 G-1, complete, 2 " No. 447. G-1, bottom, 2 " 460 461 450 451 Contrition H.f. capping, 456 G-2, co 457 G-2, bottom, 458 G-2, capping, 3 " No. 450. Ornamental Moulding. MADE IN TWO AND THREE WITH & INCH GROOVE Hardihood 590 Polished Oak, 2 wire, per foot. . 50.25 No. 591 Hardly 591 4 2 4 Hardening 592 Polished Oak, S wire, per foot.... Hardiest 593 . 3 ... No. 593. 594 White and Gold, 2 wire, per fact Hardened 595

598

No. 598.

596 White and Gold, 2 wire, per foot.

.. 3



Code Word.	List	No. Li	st Price.
Cheeriously	18757	Twist connectors for No. 4 wire, B. & S. gauge, per 100	\$9.06
Choosey	18758	Twist connector, for No. 6 wire, B. & S. gauge, per 100	8.00
Chemically	18759	Twist connector for No. 8 wire, B. & S. gauge, per 100	9.50
Chemist	18760	per 100	7.06
Chourits	15416		7.06
Chemniteer		per 100	7.08
Channitay	15418	Twist connector, for No. 16 wire, B. & S. gauge, per 100.	7.08
Cherie	18761	Solder connector for No. 0000 wire, B. & S. gauge, per 100	25-00
Oherishing	18762	Solder connector for No. 000 wire, B. & S. gauge, per 100.	25-00
Charoot	18763	Solder connector for No. 00 wire, B. & S. gauge, per 100	25.00
Cherryly	18764	Solder connector for No. 0 wire, B. & S. gauge,	20.00



Turn Buckles.

Code Word.	List No.	Diameter of Thread, inches.	Length of Screw, inches.	Galvanised. List Price. Each.	Plain. List Price. Each.
Slipskod	24129	4		.95	.00
Slipekos	24130	1	31	1.00	-85
Blipelop	24131	A	4	1.10	.00
Slipetring	24132	Ä	5	1.30	1.10
Hlipthrift	24133	74	6	1.50	1.25
Blit	24134		7	1.80	1.55
Slither	24135	į.	12	2.75	2.40
Blovenliness		i	8	2.40	2.08
Sloveniu	24138	i	12	3.75	3.10
Slow	24139	i	9	3.50	2.75
Sloveback	24140	i	12	5.40	4.25
Slowly	24141	ì	10	4.25	3.50
Slovences	24142	ıř	11	5.50	4.25
Blub	24143	ī i	14	7.00	5.25
Blubber	24144	14	13	8-25	6.25

Cutter insulated Turnbuckle.



Is made with heavy porcelain insulators account is malleable iron forks. These give a double insulation making the device very effective. The turnburks gives nine inches adjustment.

Cutter Insulated Suspension Bolt.



. Reduces the risk of grounds on suspension lamps by insulating the suspension wire or cable from the pole. Can also be used with guard wires or for rall way suspensions. The fork is of malleuble icus and well braced.

Cutter "Banner Core" Hoisting Rope.



A now brand of hoisting rope specially made for use with are lamps or suspension street hoods. It is made of selected cutton stock, closely braided over a red, white and blue even; the cord is then treated so as to withstand the weather, making the strongest and most durable cord for outdoor use. The genuine has the distinctive "banner core."



 Stippery
 24128
 ½-inch, per 100 feet
 ...

 Stippiness
 24127
 ½-inch, "...
 i...

 Stippy
 24128
 ½-inch, "...
 i...

Pure Manilla Rope.

					•	
		Diam	Weight of	Number of Feet in Onc Pound.	Strength of New Manife Rope.	Per Penni
Murdock	15420	ŧ	23	43	450	.30
Murroes	15421	i	43	24	820	.30
Muscatine	15422	Ã	74	134	1700	.26
Muscoda	15423	Å.	101	10	2300	.26
Muskegan	15425	ì	132	74	3000	.25
Mystic	15426	i	167	6	3900	.24

Incandescent Street Brackets.

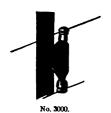
Cherub 2795 30 inch Straight Pipe Bracket, each 1.00
Cherubim 2796 Goose Neck Bracket, each 1.10

The above furnished in #-inch and #-inch pipe as desired.

Oak Pins.

	Gode Word.	Tital No.	In Crates of 500.	ist Prior		
	Nampa	15430	Western Union Standard, 1 1/2 inch, second growth, split timber, hand painted two coats, with first-class mineral paint, per			
No. 15430	Nantucket	15431	Western Union Standard, 11/2 inch split timber, hand painted, two coats, with	20.00		
	Napa	15432	first-class mineral paint, per 1000	15.00		
	Naples	15433	14 inch, second growth split timber, hand painted, two coats, first class mineral paint, per 1000.	20.00		
	Nopolian	15434	1/4 inch, split timber, hand painted, first-	-		
	Noshua	15435	c ass mineral paint, per 1000	12.00		
			Locust Pins.			
and the same of			Not Painted.			
Description of the second			In Crates of 500.			
-	Nashville Natchra	15440	1% inch. 7% inch long, per 1000	25.00		
No. 15440.	Natcik Navajo	15442	11/2 8 " transposition, per 1000	27.00		
	Naylor	15444	1% " " " "	30.00		
			Corner Pins.			
Cumum Cumum	Neenah Negona	15446 15447	Oak, 1% " " " " " " " " " " " " " " " " " "	60.00		
No. 15445.	Brown Duplex Pins.					
	Circumsent Citable	2671 2672	Oak, 1% inch, per 1000	30.00 40.00		
No. 2071.			Solid Iron Pin.			
	Buld	3394	1% inch, each	.10		
THE REAL PROPERTY.			Brackets.			
No. 3394.			In Crates of 500.			
	Nelson.	15455	Oak, Western Union Standard, No. 1 tim- ber, Irand painted, two coats first-class mineral paint, per 1000	25.00		
	Neola	15456	Oak, Western Union Standard, No. 2 tim- ber, hand painted; two coats first-class			
	Neoslin	15457	mineral paint, per 1000 Oak, Pony telephone, hand painted, two	21.00		
	Nevada Novark	15458 15459	coats, first-class mineral paint, per 1000 Oak, Pony, painted, dipped, one coat "Standard, Locust, not painted "Special prices on pins and brackets	18.00 16.50 35.00		
No. 10500.			shipped direct from factory in large quan- titles.			

WESTERN ELECTRIC COMPANY.



Brown Duplex Bracket.

 Code Word.
 List No.
 List No.

 Citrate
 3000
 Por 1,000
 \$35.0



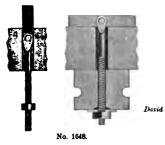
Locke Indestructible Insulator Pin.



The "Insulating Saddle Staple."

Centralize	1742	For wir	e rle	inch in	diameter, pe	r 1,000	١	 .84
Centrifugal	1743		- 14		•	4		 ٦.
Centripetal	1744	4	W	u	•	•		 .31
Centriple	1745	4	W	4	•	•		 1.7
Centurion	1746	4	**		44	*		 5.4
Century	1747	u	W		•	•		 5.0





Toggles.



Tile Bolt and Lock.

This tile bolt and lock is devised for use in fire-proof

This tile boit and lock is devised for use in fire-proof buildings where the columns and girders are covered with tilling. It is a safe and simple method for fastening insulators, rosettes, or other electrical appliances to cellings, columns, or walls. It cannot be pulled out when properly set and yet can be easily removed when desired. This device consists of two pieces of metal with partially corrugated outside surfaces which when placed together form a shape similar to a cone. The opening in the upper end when the pieces of metal are put together is countersunk, allowing the bolthead to which the insulators or other devices are to be fastened to fit snugly between the two pieces as metal. These two pieces of metal together with the bolt are inserted in a hole in the tiling. A small concave weather slips over the bolt and a nut is then screwed up close to the ends of the small pieces of metal, as it is gradually tipitened didraws the bolt head down into the space between the two pieces of metal until it makes them bind tightly to the sides of the hole, the end deepest in the hole binding sightest; this leaves the shank of the bolt free for staching any device that may be desired.

The top lilustration, Figure 1, shows the screw or bolt attached to a celling while the illustrations under it, Figure 2 and Figure 3, show respectively an insulator and a celling button or rosette attached to the bolt. Illustration Figure 4 shows how the tile bolt and lock may be used for attaching ornamental brackets to the side of a wall.

These tile bolts and locks are made in two sizes:

may be used for attaching ornsmental brackets to the side of a wall. These tile boits and locks are made in two sizes: No. 25073 which has a bolt $3 \pm x \pm 1$ inches, includes the two conical pieces of metal which are called the lock, one small iron washer, two small iron quts, and the bolt; No. 25074, which has a bolt $2 \times \pm 1$ inches, includes the lock, the bolt, one small iron washer, one small iron nut, and one brass nut which is slotted so that a screw driver as well as a wrench may be used on it. No. 25074 is used principally for fastening resettes to the ceiling where two bolts are to be used on one device. It will be particularly noted that partitions in the tiling or tile or marble slabs resting against flat surfaces do not interfere with the use of the tile bolt and lock as in the case of toggle bolts; with the tile bolt and lock there is no need of an open space as is required in the use of toggle bolts.

toggle bolts.

Code Word.		3-1	xi	Inches,	per	List Price. 1000\$40.00
Bomnteulous	25074	2	×4		**	1000 45.00



Standard Cross Arms.

Shipped direct from Bay City, Mich.

Painted two coats red. Finished size % xi% tachs.

Bored for 1% inch pins and two % inch belts union otherwise specified.

Code Word.	List No.	Lee		Pin			daps.	sia		Lips I	ries.
Otley Otsego Ottawa Otto Ottumea Overton Ovid	23563 23564 23565 23566 23567 23568 23569		feet,	2,444668	4 in	28 16 18 23 10 18	in.	13 17 21 12 17 12 17 12	in	5	.12 .15 .21 .24 .33 .33
Owego Oxford	23572 23573	10		10	:	17%	4	15%			.53

Telephone Cross Arms.

Shipped direct from Bay City. Mich. Painted two coats. Finished size 2½x3½ in. Bored for !¼ in. pins and two ½ in. bolts.

		~~~	les et be			
Niles	15467	120 "	13	**	l6 ··	10 "
Nicolieti	15466	102 "	10	44	16 "	10 **
Nichola	15465	83 "	8	**	16 **	10 "
Niantic	15464	63 "	6	**	16	10 "
Niagara	15463	42 H	4	**	16 **	10 in
Newton	15462	36 "	2	11	30	
Newburg	15461	30 "	3	**	24	*****
Newburn	15460	24 in.	2	3 in.	18 in.	
-			of Pins.		Center.	Sides.
		Electric land	WARRINGE		opacings.	

Odd lengths same price as next longer arm having same number of pina. Odd spacing extra prices. Above arms of best Michigan white pine. Special prices quoted on yellow pine arms and extra heavy arms.

# Stiff Steel Cross Arm Braces.

No. 15170.

 $I_{22}^{*}$  inches wide by  $I_{2}^{*}$  inches thick, punched for  $\mathcal H$  inch lag screw in one end and  $\mathcal H$  inch carriage bolt in the other.

Nina	15470	20-	nch.	Approx per 100	. weight 10 pair.	ae 1000 -	-1-	
Nipton Nolin Noma	15471 15472 15473	20	••	2300 2500 2900			eir	100.00 125.00 140.00
				Galva	nized.			

Lag Bol	ts.
---------	-----

	1	Price per hundr	ed.	
Length.	% In.	% in.	χ≰ ln ₁	¥ in.
*	<b>83</b> .88	\$1.05	\$4.95	
21/2	8.06	4.85	5.40	\$ 7.92
8	8.24	4.65	5.85	8 58
81/2	3.43	4.95	6.80	9.24
4	8 60	5.25	6.75	9.90
41/2	3.78	5.55	7.20	10.56
5	8.96	5 85	7.65	11.23
51/2	4.14	6.15	8.10	11.88
6	4.83	6.45	8.55	12:54
7	4.68	7.05	9.45	18 86
. 8	5.04	7.65	10.85	15.18

		Ce	urriage Bo	lts.	
			Price per hundr	ed.	
	Length.	¾ in. \$1.08	% in. \$1.50	⅓ In. ⊈3.00	% in. \$ 5.00,
	21/2	1.16	1.64	8.00	5.00
_	8	1.84	1.78	8.00	5.00
	81/	1.28	1.85	3.10	5 15
	81/2	1.83	1.93	8.20	5.30
	31/	1.36	1.99	3.30	5.45
	4	1.40	2.06	3 40	5.60
	41/	1.44	2.13	8.50	5.75
	4%	1.48	2.20	3.60	5.90
	4%	1.52	2.27	8.70	6.05
	5	1.56	2.34	3.80	6.20
	5 1/2	1.64	2.48	4.00	6 50
	6	1.72	2.62	4.20	6.80
	6%	1.80	2.76	4.40	7.10
	7	1.88	2.90	4.60	7.40
	71%	1.96	3.04	4.80	7.70
	8	2.04	3.18	5.00	8.60
		M	achina Pol	14.0	

### Machine Bolts.

	1	Price per hundr	ed .	
Length,	¼ in.	% la.	⅓ in	% in-
21/2	\$1.86	\$2.64	<b>\$</b> 4.00	<b>\$</b> 5.80
3	1.94	2.76	4.20	6.10
3 1/2	2.02	2.88	4.40	6.40
4	2.10	8.00	4.60	6.70
41/2	2.18	8.12	4.80	7.00
5	2.26	8.24	5 00	7.30
51/2	2.84	8 36	5.20	7.60
o T	2 42	8.48	5.40	7.90
61/2	2.50	3.00	5.00	8.20
7	2.58	3.72	5.80	8.50
71/2	2.66	3.84	6.00	8.80
8	2.74	8 96	6.20	2.10
9	2.00	4.20	6.60	9.70
10	8.06	4.44	7.00	10.80
		Washers		

At market prices.



# Wood Poles.

SPECIAL PRIORS QUOTED ON APPLICATION.

### Round Cedar.

140 35 f		7 8 1	iep. sobes.	Weight in Lin. 900	20 to Carbon 130
26	••		••	275	<b>330</b> .
30	••	6	•	<b>185</b>	<b>380</b> '
80	••	7	••	400'	
*	**	6	•4	. 400	230
×	••	7		800	130
40	••	•	••	700	130
40	**	•	••	800	
45	••	•	•	<b>***</b> .	
45	••	7	••	1300,	•
30	••	6	•	1900	•
80	••	7	•	1400	
55	**	•	••	1800	*
85	••	7	••	1800	

# Norway Pine.

40 feet.	7 inches	1100	
45 "	7 "	1900	
50 ··	7 "	1300	13
85 "	7 "	1800	
60 "	7 "	1700	
65 "	7 "	3000	
70 ··	7 "	9400	
75 ''	7 "	2000	
80 "	7 "	3400	
98 "		-	-

# Norway Pine Octagonals.

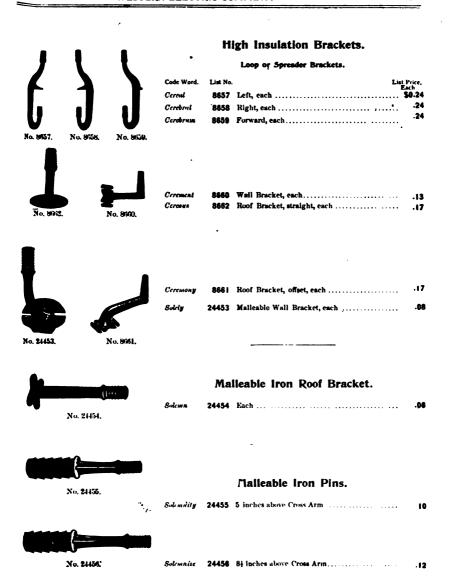
28 feet.	6 ióches.	9 inch butt.	16
28 "	7 "	10 "	•
28 "	8 "	11 "	39
<b>3</b> 0 "	6 "	• "	75
ao ··	7 "	10 "	•
30 "	8 "	11 "	<b>JP</b>
89 "	6 "	• "	
33 "	7 "	10 "	•
32 ''	8 "	11 "	•
84 "	6 "	• "	65
<b>24</b> "	7 "	10	30
84 "	8 "	11 "	•

Six feet of the butt treated with preservative, balance of pole painted drak, tops typed.

#### Pole Steps.

***************************************	CodeWord	List No.					Per 100.
	Norton	15480	Z,x9 B	lack			\$ 6.00
No. 15480.	Norwalk	15481					8.00
	Norway	15482	16x9 B	tack		inima	7.00
	Norwich	15483					9.00
	Booby	3528	8115	P.D	black	pole steps	6:50
THEFT	Book	3529	9816	-	11	**	6.75
No. 3528	Bookful	3530	10×1/2	**	**	.01	7.00
310. duan.	Booking	3531	8×36	- 10.	99	**	6.70
	Bookish	3532	0 8 56	49	**	74	7.00
	Boom	3533	10×56	***	**	**	7.25
_	Boomed	3534	8x 1/2	**	galv.	14	8.00
	Boomerang	3535	0x 1/2	**	**	**	8.25
A PAGE	Boot	3536	10x36	**	**	**	8.50
A 484	Booted	3537	8x 1/4	**	**	**	9.00
NA CATTA	Booth	3538	9×16	-84	**	44	9.25
The second secon	Bootless	3539	10x16	**	**	**	9,50
	Cutter	Deta	chabl	e F	oles	steps.	
goer	one pound sup the pol his pocket a	). He sl le to trin and goes o	the li	amp,	s into	outs the st	
Ro. 24134. Solarium	one pound sup the pol his pocket a	). He sl le to trin and goes of able iron, ockets, p	the le	e nex	s into then p	outs the at	eps \$0.20
No. 24134. Solvelation	a one pound sup the pol his pocket a All of mallea 24433 Son 24434 P	). He all the to trim and goes of this iron, ockets, proceedings, collecters,	the hon to the japanne er pair per pair per pair per pair	Clar	s into then p t lamp	outs the st	\$0.20 - 30
No. 24134. Solarianto Solarianto Acquittat 25	a one pound sup the pol his pocket a All of mallea 24433 Son 24434 F Galvan For fastening thes long; am	). He alle to trim and goes o the Iron, ockets, p 'olesteps, tized ( z guy win all size 3 slze with	ithe hon to the japanne or pair per pair per pair tes and inches three between the per pair three between three between the per pair three per pair	Clar cable	mps	outs the st	\$0.20 
No. 24134. Solarianto Solarianto Acquittat 25	a one pounds up the pol his pocket a All of malles 24433 Son 24434 P	). He alle to trim and goes o the Iron, ockets, p 'olesteps, tized ( z guy win all size 3 slze with	ithe hon to the japanne or pair per pair per pair tes and inches three between the per pair three between three between the per pair three per pair	Clar cable	mps	outs the st	\$0.20 
No. 24134. Solarianto Solarianto Acquittat 25	a one pound sup the pol his pocket a All of mallea 24433 Son 24434 F Galvan For fastening thes long; am	). He alle to trin mid goes of the iron, ockets, proceedings, proceedings of the iron, ockets, proc	ithe hon to the japanne or pair per pair per pair tes and inches three between the per pair three between three between the per pair three per pair	cable	s into	ege size is	\$0.20 
No. 24134. Solarium S	a one pound sup the pol his pocket a All of mallea 24433 Son 24434 P Galvan For fastening thes long; am 603 Large : 604 Small s	). He alle to trin ind goese oble iron, ockets, proceedings, proceedings, and the control of the	the limit to the japanne or pair per pair per pair per pair per pair per pair three between lithree li	Clar cable cable	s into then p t lamp	e ge sise is	50.20 30 30
No. 24134. Solarium S	a one pound sup the pol his pocket a All of malles 24433 Son 24434 P Galvan For fastening thes long; am 6603 Large; 6604 Small s	). He alle to trin ind goese oble iron, ockets, proceeds, proceeds, proceeds, proceeds, in the same of	Guy  Guy  Grosb  Giam. Ro  21-in	Clar cable omg.	s into then p t lamp	ye sise is	50.20 30 5,4 20
No. 24134. Solarium S	one pounds up the pol his pocket a All of malles 24433 Son 24434 P  Galvan For fastening these long; am 6603 Large (6604 Small a)	). He alle to trin ind goese oble iron, ockets, proceeds, proceeds, proceeds, proceeds, and size of the size with 15484 15485	Guy  Guy  Grosb  Crosb  Clam. Ro  Min.	Claricable ong.	s into then p t lamp	ege size is	\$0.20 - 30 34 - 40 - 20
No. 24134. Solarium S	Galvan  Galvan  For fastening  ches long: sm  Galvan	). He alle to trin mid goese oble lron, ockets, proceedings of the line of the line ockets, proceedings of the line ockets, pr	ithe home to the h	Clar cable ong.	mps.	ege size is	S0.2030304020353035
No. 24134. Solarium S	Galvan   ). He alle to trin mid goese oble iron, ockets, prolesteps, rolesteps, alle to trin mil size of the trin mil size with size with 15484 15485 15486 15487 15487	Tuy  Trosb  Crosb  Crosb  Main Roll  Main Ro	cable	mps. lar	ge size is	5 M	
No. 24134. Solarium S	Galvan   ). He sle to trin ind goese oble iron, ockets, p cockets, p cocket	Ouy  Crosb  Crosb  And Market  Crosb  Crosb	Claricable	mps large	ge size is	S0.2030304020353545	
No. 24134. Solarium S	Galvan  Galvan  For fastening  ches long: am  Galvan	). He alle to trim and goese oble lron, ockets, proceeds, proceeds	Crosb	Clair cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable cable ca cable cable cable cable cable cable cab cab cab cab cab cab cab ca cab cab	mps, lar	ge size is	Each
No. 24134. Solarium S	Galvan   ). He all e to trin ind goas of oble Iron, ockets, p holesteps, holesteps, all size 3 size with size with 15484 15485 15486 15486 15489	The line to the line line line line line line line lin	cable	mps lar	ge size is	534 	
No. 24134. Solarium  No. 24134. Solarium  Solarium  Acquittal 25  Acquittance 25	Galvan   ). He alle to trin ind goese oble Iron, ockets, proceeds, proceeds	The land to the la	Claricable cable c	s into then p t lamp	ge size is	Esch	
No. 24134. Solarium S	Galvan   ). He all e to trin ind goas of oble Iron, ockets, p holesteps, holesteps, all size 3 size with size with 15484 15485 15486 15486 15489	Tuy  Tropic of the light of the	Claricable on general cable on general c	s into then ; t tamp	ge size is	Each	

-	7		чHi	gh Insulation" Brackets.	
	No. 8640.	C W	<b>1</b> 144 M.	Brênk Arms.	. 1
		Code Word.	List No.	1.40.	
L	-	Ceruta Cerebus		Removable Pin, each	- s
<u></u>	No 9641.	age of a month		· · · · · · · · · · · · · · · · · · ·	-
	Nó. 21440.	Soldiery	244484	y Malleable Iron, Removable Pin, cach	
		Sole	24447	Malleable Iron, Solid Pin, each	26
	No. 24417.		Malle	eable Iron Ceiling Brackets.	
U		Solecism Solecist		Single, each	.17 <b>26</b>
No. 24448.	No. 2449.		Maii	leabe Iron Drive Brackets.	
	No. 21450.	Solecistic	24450	Upright	10
	No. 21451.	Soleciaticul	/y 24451	Thimble	.12
	No. 24458.	Solerise	24452	Right Forward	.10



### WESTERN ELECTRIC COMPANY.

_	"High Insulation" Brackets—(Continuel)						
No. 8000	Code Work - Cores	Late No. Mail 8883 Lateral Bracket, right, each					
No. 8642.	Corky	8842 Cornice Bracketz, each.					
No. 865	Carrin	- 9843 Lateral Brackets, left, each					
لها	Ortolaly	9840 Combination Bracket, each					
No. 8647.	Certainnes	8847 Reflector Bracket, each					
No. 8648.	Certificate	8848 Converter Bracket, each,					
10. 8040.	Certified	9488 Side Bracket, each					



No. 9468.

Fletcher's Double Pin Bell Break An

FOR USE WITH CONVERTEES AND SWITCHES.

_____

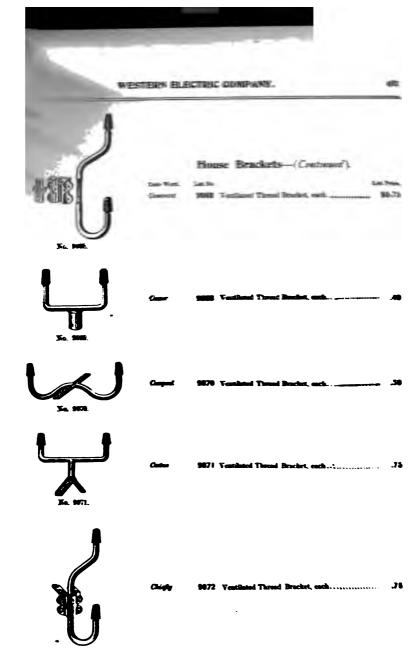
288 | Each .....

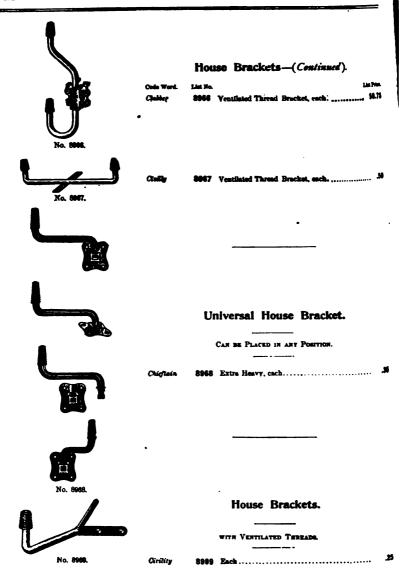
#### WESTERN ELECTRIC COMPANY.

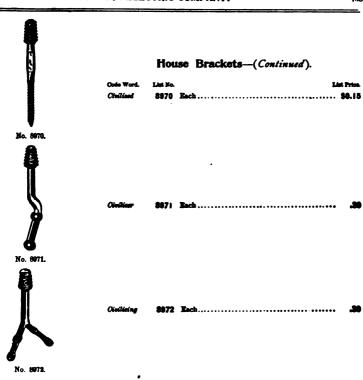
		Japanned. House Brackets.  WITH VESTILIATED THEMADA.
No. SMR.	Code Word. Chieken	List He. List Price. 8992 Each
No. 8002.	Chichery	8993 Each
No. Seed.	Chida	8994 Zach
No. 8028.	Chidor	8995 Each
No. 6006.	Chiding	8996 Each
No. 8007.	Chief	8987 Each

		Japanned. Wall Piates.  WITH POSSEALT KNOW
No. 1008.	Chain West. Chair,	Zah Na. Dahla. SSSS Mash. SLN
No. 100.	Chestag	9065 Tech
No. 8067.		9007 Theh
لسا		House Brackets.
No. 8836	Cirtitudo	8836 Adjustable House Bracket, each
No. 8897.	Constion	8637 Adjustable House Bracket, each
No. 9638.	Countrie	8628 Ventileted Thread Bracket, each
	Cusion	8839 Ventilated Thread Bracket, each.

يعتددان أرار







# Wire, Cord and Cable.

#### Habirshaw White Core.

Solid Conductors, Braided.				Stranges Conductors, Bruses.					
Code Word.	List No.	Gauge B. R S.	Approx. Outside Diam. in 82ds of in	Price per	Code Word.	List No.	Gange B. & S.	Approx. Outside Dises, in Side of in	Price per 1800 Pt.
<b>Solicitation</b>	25001	14	6	\$15.00	Bolidity	25013	8	10	\$50.00
Bolicitor	25002	12	7	23.00	Bolidly	25014	6	11	62.00
Solicitous	25003	10	8	30.00	Bolidness	25015	5	13	78-86
Solicitously	25004	8	9	36.00	Bolifidian	25016	4	13)	96.00
Solicitres.	25005	6	10	58.00	Boliloguiza	25017	3	14	136.00
Solicitude	25006	5	12	69.60	Boliloguy	25018	2	16	156.00
<b>Solidarity</b>	25007	4.	13	76.00	Boliped .	25019	1	17	206.00
Bolidate	25008	3	131	98.00	Solitair	25626	0	18	210-00
Solify	25009	2	14	118.00	Solitarily	25021	00	19	228.00
Bolidism	25010	1	15	135.00	Soldteriness	25022	000	21	260-00
Solidist	25011	0	16	00-081	Bolitary	25023	0000	24,	340.00

### Habirshaw Standard Red Core.

No, auu.	No,	8000.
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# Solid Conductor, 800 Volts, Taped Outside,

Code Word.	Link No.	Ganga. B. & S.	Approxima Outside Disa Sinds of ea. I		Link Print, per Freil
Abacus	30005	18	4		\$0.02%
Abaft	1008	16	54	*******************************	02%
Abandoner	3002	14	•	***************************************	03%
Abandoning	3003	13	7		84%
Abase	3004	10	8	••••	06%
Abasement	3005	8	9		83¥
Abash	3006	6	10		IIX
Abashed	3007	5	13		13¥
Abashing	3008	4	18	••••••	15¥
Abate	3009	8	184		18
Abated	0108	3	141		23%
Abatement.	8011	1	181	*****	31%
<b>Abater</b>	3012	0	161		41

#### Solid Conductor, goo Volts, Braided Outside.

		ı	George. D. & S.	Appreniment Outside Diagn. Minds of an Inc	) fn Å.	
No. 3018.	Abattoir	8013	18	4		.02 ¥
	Abbacy	3014	16	54		.03
	Abbess	8015	14	6		.03%
	Abbey	3016	19	7		.85
	Abject	3017	10	8	***************************************	.06×
	Abjection	3018	8	9	•••	.06 X
	Abjectly	3019	•	10		.12
	Abjectness	3020	5	13		.14
	Abjure	3021	4	18		.16
	Ablation	8022	8	181		.181
	Abiative	3023	3	14		.24%
	Ablanc	3024	i	181	••••••	.32%
	Ablo	3825	0	161	• • • • • • • • • • • • • • • • • • • •	AB

# Habirshaw Standard Red Core—(Continued).



Stranded Conductor, goo Voits, Braided Outside.

M-	9000

Code Word.	List No.	Gauge. B. & S	Circular Mila.	Districts Discounter in Study of an inch	List Price per Fool.
Ablution	3026	13	6,599	.1	\$0.05%
ANy	3027	10	10,381	8	,
Abnegate	3028	8	16,509	10	
Abnormal	3029	•	26,250	11	
Aboard	3030	8	88,102	18	
Abode	3031	4	41,743	18)	241⁄4
Abolish	3032	8	52 684	144	
<b>Abolisher</b>	3033	2	66,378	16	
Abolition	3034	1	88,694	17	<b></b>
Abominably	3035	0	105,599	18	
Abominato	3036	00	123,079	19	<b></b>
Abominated	3037	000	167,865	21	<b></b>
Abeminatina	3038	0000	211.600	24	



### Grimshaw White Core Wire.

Solid Conductor, Double Coated, Taped, Black or White Braid.

		Typedo	P.C.	Series Complete		-	Mari
Archines	3104	230	18	•	1004.	.195	\$1.90
Archness	3105	221	18	6	1004.	.156	2.00
Archway	3106	228	16	10	2588.	.125	2.15
Archuiss	3107	234	16	10	3663.	.156	2.20
Arctic	3108	226	14	15	4107.	.187	2.70
Ardour	3109	229	14	15	4107.	.218	3.00
Area	3110	281	12	21	6180.	.218	3.50
Arena	3111	233	13	<b>8</b> 1	6530.	.250	3.70
Argent	3112	235	10	83	10681.	.250	4.50
Argument	3113	236	10	83	10361.	.981	5.00
Arid	3114	287	8	44	16509	.281	5.50
Aridity	3115	238	8	44	16509.	.848	6.50
Aright	3116	239	6	60	26:200.	.848	8.25
Arise	3117	240	6	60	<b>~6250</b> .	.406	9.50
Arisen	3118	241	5	68	83102.	.406	9.90
Aristocrat	3119	243	5	68	8R109.	.468	10.25
Ark	3120	248	4	83	41743.	.406	10.50
Armorer	3122	244	4	83	41742.	.468	12.50
Armorial	3123	945	8	164	52684.	.487	12.75
Armorio	3124	2454	8	104	52614.	.500	14.25
Armory	3125	246	2	118	66873.	.468	15.75
Armpit	3126	246	2	118	66373.	.581-	17.25
Army	3127	247	1	185	65898.	.500	21.00
Arnol	3128	2171	1	135	8869 <b>4</b> .	.563	23.00
Arousing	3129	248	0	179	105592.	.581	27.25
Arres	3120	3484	0	179	105504.	.595	30.75

### Grimshaw White Core Wire-(Continued).

Stranded Conductors, Double Conted, Taped, Black or White Brid.

					Children or other Party		
Code Word.	Link Plan	1	2.00	William .	421	7	THE STATE OF
Amayer	3131	704	8	44	16500.	.343	\$8.00
America	3132	765	•	<b>60</b> ·	20000.	.275	1.30
America	3133	106	6		20000.	.437	11.00
Anombles: *	3134	707	5	60	33166	.461	12.00
Assemblence	3135	706	4	88	41743.	.461	14.50
Assembling	3136	700		88	41743.	.000	16.00
Assembly	3137	710	8	104	59634.	.483	18,00
Anni	3138	711	8	104	22624	.545	19.50
Astenter	3138	T13	3	118	00378.	.130	20.00
Amenting	3140	718	2	118	00378.	.001	23.00
Amentment	3141	714	1	125	89004.	.844	27.80
Amert	3142	715	i	135	20014	.006	20.00
Americal	3143	716	ě	179	105000.	.190	30.00
Asserting	3144	717		179	105000.	.636	30.00
Amertion	3145	718	00	210	183079.	.636	30.00
Assertine	3140	719		210	183079.	.718	43.00
Amenable	3147	720	000	261	167805.	.718	43.00
Amenion	3148	721	000	251	167808.	.791	53.00
Amount	3149	723	0000	275	211600.	.718	30.00
Asservances	3150	723	0000	275	211600	.791	

# Raven Core Wire—Braided.



Deputing	1229	290	18	6	1694.	.195	1.65
Deputy	1230	831	18	6	1634.	.156	1.75
Derange	1231	236	16	10	2012.	.125	1.75
Deranged	1232	294	16	10	9068.	.156	1.06
Derangement	1233	887	14	15	4107.	.156	2.19
Dereliet	1234	896	14	15	4107.	187	2.30
Derida	1235	881	12	21	6830.	.218	1.25
Deriding	1236	843	12	21	6830.	.960	3.55
Derision	1237	894	10	22	10081.	.218	4.06
Derivation	1238	885	10	23	10881.	.260	4.19
Derive	1239	887	8	44	16500.	.261	4.75
Deriving	1241	896	8	44	16500.	.343	8.75
Derogation	1242	890	6	60	20000.	.343	6.50
Deregatory	1243	340	6	60	26250.	.406	8.40
Despotic	1244	841	5	60	33100.	.406	8.90
Despotiem	1245	843	8	68	22102.	.468	9.50
Destination	1246	343	4	83	41743.	.406	9.90
Destine	1247	844	4	83	41742.	.466	11.50
Desting	1248	845	8	104	59634.	.487	11.25
Destitution	1249	346	8	104	52634.	500	12.75
Destroy	1250	847	3	118	00378.	.468	14.75
Dratroping	1251	848	2	118	06373.	.831	18.25
Destructible	1252	349	1	185	10004	.860	19.00
Destruction	1253	250	1 '	125	10004	.000	21.00
Desultory	1254	251	ě	179	100500.	.381	26.25
Detack	1255	202	ě	179	10000.	.000	20.75

### Raven Core Wire-Braided-(Continued).

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Code Word.	List No.	Trade No.	R. & S. Gange.	Safe Currying Capacity. R.:re Wire in Amp. 280° F.	Circular Mila. (dr) 1 Mil .001 inch.	Outside Diam. of Insulation, List Pr .001 inch. per 100	
<b>Emarg</b> inate	1869	804	8	44	16509.	`.848 \$6.	25
Embassy	1870	805	6	60	26250.		75
Embedded	1871	806	6	60	26250.	.487 9.	<b>00</b>
Embellish	1872	807	5	68	88102.	.461 9.	75
Embers	1873	808	4	83	41749.	.461 12.	00
Embezzle	1874	809	4	88	41742.	.523 15.	00
Emanaled	1875	810	8	104	52684.	.483 16.	60
<b>Emanation</b>	1876	811	8	104	59684.	.545 18.	.00
Emancipate	1877	812	8	118	66873.	.589 19.	.00
Emancipator	1878	818	2	118	66873.	.601 22.	.00
Emancipist	1879	814	1	135	88694.	.544 26.	.00
Emanuel	1880	815	1	135	88694.	.606 29.	.00
Elude	1881	816	0	179	105592.	.598 28.	25
Elvira	1882	817	0	179	105502.	.656 32.	15
Emaciate	1883	818	00	210	188079.	.656 36.	00
<b>Emaciated</b>	1884	819	00	210	188079.	.718 41.	.00
<b>Emoculate</b>	1885	820	000	251	167805.	.718 42.	50
<b>Emanate</b>	1886	821	000	251	167805.	.729 47.	50
<b>Emb</b> olden	1887	822	0000	275	211600.	.718 55.	.00
Embosom	1888	823	0000	275	211600.	.791 00.	.00

### Grimshaw Duplex Fixture Wire,

#### Taped or Braided.

			B. & E. Gange.	Safe Carrying Cap., each Cond. Bare Wire, in Amp. 188° F.	Outside Diam. of Invulntion Lift tack.	
Listful	1169	Taped	14	15	.218	5.00
Listless	1170	••	16	10	.218	4.50
Ziteral	1171	••	18	6	.218	4.00
<b>Literation</b>	1172	Braided	14	15	.218	5.00
Literalness	1173	<b>"</b>	16	10	.218	4.50
Elerory	1174	٠	18	6	.218	4.06

#### Okonite Wire.

Low Tension Currents, From 100 to 500 Volts.

#### Solid Conductor, Plain Finish.



Code Word.	Likt No.	Size of Conductor A. W. G.	Outside Diameter of Insulation, Inches,	Approximate Weight per Mile, Pounds,	Insulation Resistance per Mile. Megobins.	Link
Ascendant	3158	22	,075	33	500	\$.
Ascending	3159	20	091	42	500	
Ascension	3160	18	102	50	500	14
Ascertain	3161	16	120	78	500	
Arctie	3162	14	.148	127	500	13
Astribe	3163	12	.165	178	500	
Ascribing	3164	10	.175	236	500	
Ashamed	3165		.183	270	500	
Ashore	3166	8	.193	223	500	
Ashpan	3167	7	.220	432	500	
Annasia	3168	6	.252	534	500	
Amassinate	3169	5	.276	668	500	
Assation	3179	4	.300	815	500	
Awault	3171	8	.340	1,036	500	
Awaulted	3172	2	.372	1,238	500	
Assaulting	3173	1	430	1,657	500	
Assay	3174	b	.500	2,134	500	
Assayed	3175	00	.560	2,698	500	

# Solid Conductor, Braided Finish.

Alertness	32 F I	22	.075	40	500
Alexand	3212	20	.091	50	500
Affred	3213	18	.103	66	500
Algebra	3214	16	.130	90	500
Algebraical	3215	14	.148	143	500
Algernon	3216	12	.165	196	500
Algous	3217	10	.175	254	500
Alice	3218	9	.183	391	500
Alias	3219	8	.192	251	500
Alienable	3220	7	.220	446	500
Alienation	322 1	6	.252	563	500
Alienator	3222	5	.276	703	500
Alience	3223	4	.800	859	500
Alife	3224	3	.340	1,087	500
Align	3225	2	.873	1,200	500
Aliment	3226	1	.430	1,750	500
Alimental	3227	0	.500	2,236	500
Alimentally	3226	00	.500	2,750	200

#### Okonite Wire (Continued).

#### Stranded Conductor, Plain Flash.



Code Word.	List No.	Size of Conductor Equals. A. W. G.	No. of Stranda. E. W. G.	Outside Diameter of Insulation. Inches.	Approx. Weight- per Xile. Pounds.	Insulation Resistance per Mile. Megohma.	
Assistices	3176	22	7x30*	.091	35	<b>5</b> 00	\$0.02×
Assize	3177	20	7x30	.102	46	500	.02 16
Assised	3178	18	7x26*	.114	63	500	.03%
Assiser	3179	16	7×24	.144	101	500	.041/4
Associable	3180	14	7x23	.163	139	500	.05 K
Associats	3181	13	7×20°	.183	191	500	.06 1/2
Associated	3182	11	7x20	.192	274	500	.07 X
Associating	3183	10	7×18*	.204	370	500	.08 €
Associative	3184	9	7x17*	.213	325	500	.09 🗶
Associator	3185	8	7x18	.220	360	500	.09 %
Assoil	3186	7	7×17	.238	468	500	.113
Assoilment	3187	6	7x16	.239	62:3	500	.15%
Assonance	3188	5	7x15	.300	·735	500	.16%
Assonant	3189	4	7x14	.340	958	500	.21%
Assuage	3190	3	7x11*	.380	1,155	500.	.26
Assuaged	3191	2	19x17	,440	1,400	500	.34 1/4
Amucsing	3192	1	19x16	.489	1,730	500	.41 X
Assuasive	3193	0	19x15	.530	2,110	500	.50
Assustudo	3194	00	12x12	.590	2,810	500	.61
Assums	3195	000	19x11*	.620	8,120	500	.68
Assumed	3196	0000	19x12	.780	4,400	500	.98

#### Stranded Conductor, Braided Finish.

Atimentary	3229	22	7x30*	.091	44	500	.02 ¥
Ailmentation	3230	20	7x30	.102	56	500	.03%
Aliquant	323 I	18	7x 26°	.114	75	500	.03%
Aliquel	3232	16	7×24*	.144	118	500	.05
Alies	3233	14	7x23	.162	157	500	.96
Alkali	3234	13	7x20*	.182	200	500	.0714
Alkaline	3235	11	7x20	.192	232	500	.08
Alkaloid	3236	10	7x18*	.201	295	500	.09
Allan	3237	9	7x17*	.213	348	500	.10
Allay	3238	8	7x18	.220	884	500	.10%
Allegation	3239	7	7x17	.238	495	300	.12%
Allege	3240	6	7×16	.280	666	500	.16x
Alleging	3241	5	7x15	.800	7H0	500	.18
Alliant	3242	4	7×14	.340	1,007	500	.22 1/2
Allied	3042	8	7x11*	.390	1,213	500	.27 X
Alligate	3243	2	19×17	.440	1,473	500	.36 %
Allieion	3244	1	19x16	.480	1,803	500	.42 X
Alliteration	3245	Ö	19x15	.530	2,193	300	52
Allopathy	3246	00	12x12°	.500	2 897	500	.63
Allot	3247	000	19x13	.630	3 250	500	.71
Alletment	3248	0000	19x12	.730.	4 606	500	1.01

ri2 .730, 4 606 500 1.94 "American Wire Gauge.





			Piele.	-		
					-	
Code Word.	Link No	FAR	OR.		=	
Happied	1889	20	.0219	.078	*	\$1.75
<b>Happling</b>	1889	20	.0319	.006	÷	1.75
Lieiting	1001	18	.040	.078	å	1.75
Hailstons	1802	18	.040	.003	₩	1.90
Halberd	1893	18	.040	.135	ń	2.00
Halcyon	1894	16	.000	.006	ð	2.00
<i>Holibut</i>	1895	16	.000	.125	ń	2.26
Halliard	1896	16	.000	.136	*	2.75
Halter	1897	14	.064	.195	÷	2,50
Helting	1898	14	,064	.186	₩	2.00
Halring	1999	14	.064	.187	*	3.25
Ham	1900	14	.064	318	*	3.75
Hamble	1001	18	.080	.156	*	3.25
Hamlet	1902	18	.080	.187	*	3.75
Hammering	1903	19	.080	.250	*	5.50
Hammock	1904	10	.101	.218	*	5.75
Hamper	1905	10	.101	.950	٨	6.25
Hampered	1906	8	.126	.218	**	7.90
Hampering	1907	8	.128	.250	*	8.25
Hamstring	1908	8	.198	.961	*	9.75
Hasaper	1909	7	.144	250	*	8.50
Handeu¶	1910	7	.144	.281	ð	10.00
Handcuffed	1911	6	.160	.200	*	9.00
Handfast	1912	6	.168	.981	*	9.50
Handicraft	1913	6	.162	.919	11	19.75
Handiness	1914	8	.181	.981	de.	19.50
Handle	1915	5	.181	.818	11	11.06
Handling	1916	4	.904	.961	*	11.50
Hannak	1917	4	.904	.813	11	12.50
Handscrew	1918	4	.904	.875	##	14.00
Handsome	19:9	3	.290	.875	#	13.50
Handsomely	1920	8	.230	.437	11	17.50
Hang	1932	3	.957	.406	11	19.90
Hanged	1933	2	.267	.468	41	23.00
Banging	1934	1	.900	.500	H	25.90
Bangman	1935	1	.200	.500	#	27.06
Bangnail	1936	0	.894	.500	**	38.90
Harker	1937	0	.894	.005	**	34.00
Hanbering	1938	09	1.864	.368	**	25.00
Hapley	1939	00	.364	.006	**	40.00
					-	,

# Kerite Wire-Solid-(Continued).

Taped or Braided.

			ped or B	raided.			
	•	<u>Cn</u>	PPER.		Destation		_
Qude Word.	List No.	R. & S. Gauze.	Diam. of Oppper,	Diare, of Installation,	Diam, of Japanettes,		The Print
Haply	1950	20	.0819	.078	4	A.	\$2.00
Happen	1951	20	.0819	.098	٨	٨	2.00
<b>Nappening</b>	1952	18	.040	.078	٨	*	2.00
Happily	1953	18	.040	.098	٨	٨	2.15
Happiness	1954	19	.040	.195	٨	*	2.25
Happy	1955	16	.050	.093	٨	٨	2.25
Harangus	1956	16	.050	.125	٨	٨	2.50
Herangued	1957	16	.050	.156	٨	*	3.90
Harangwing	1958	14	.064	.125	٨		2.75
Harase	1959	14	.064	.156	٨	ň	3.25
Hara <b>ssi</b> ng	1960	14	.064	.187	٨	٨	3.50
Barbinger	1961	14	.064	.218	*	ň	4.00
Harbor ·	1962	12	.080	.156	4	*	3.50
Harbore ge	1963	19	.080	.187	A	٨	4.00
Habit	1964	13	.080	.950	٨	H	5.75
Habitation	1965	10	.101	.918	*	٨	6.00
Habited	1966	10	.101	.950	٨	11	6.50
Habitual	1967	8	.198	.218	N.	٨	7.25
Habitude	1968	8	.198	.950	٨	H	8.50
Hack	1969	8	.128	.961	٨	**	10.00
Hacking	1970	7	.144	.950	٨	11	8.00
Hackney	1971	7	.144	.981	٨	H	10.50
Haddock	1972	6	.169	.950	٨	H	9.50
Hades	1973	6	.163	.981	٨	11	19.00
Haggard	1974	6	.163	.812	11	11	11.25
Huggardly	1975	5	.181	.281	٨	H	11.00
<b>Haggle</b>	1976	5	.181	.812	11	11	11.75
Embroil	1977	4	.204	.281	ťı.	11	12.25
Embryo	P978	4	.204	.812	38	43	13.25
Embryonic	1979	4	.904	.875	11	11	14.75
Emerge	1980	8	.229	.875	11	H	14.50
Emergency	1981	8	.229	.487	34	11	18.50
Emerging	1982	3	.257	.406	11	11	20.06
Embottling	1983	2	.257	.468	11	H	24.00
Embracing	1984	1	.289	.500	11	11	26.00
Embrasure	1985	-1	.289	.562	11	11	28.00
Embrace	1986	0	.824	.563	11	11	32.00
Babroglio	1987	0	.324	.625	11	11	36.00
Embruider	1988	00	.864	.562	12	H	38.00
<b>Emily</b>	1989	00	.364	.635	11	11	44.00
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### Kerlte Wire.—(Continued.)

# Stranded Electric Light Conductors.

		Plai	a insulation.		
ė.	Strands		Insulation Outside Diam Mile. Set In	Insulation Outside Diam Inches	Price per SED Foot
•	7 x 14	Δ	312.5 375.	10-32	11.00
6	7 x 16	B B B	<b>375</b> .	13-32	13.00 16.50
6	7 x 16		437.8	14-32 19-32	10-30
•	7 x 15 7 x 15	2	375. 437.5	14-32	13.00 17.25
7	7 2 13	Ä	375.	19_32	15.00
- A	7 z 12	7	437 B	12-32 14-32	15.00 18.00 22.00 17.50
ä	7 x 12	Ā	800. 376.	16-32	22.40
Ĭ	1 x 12- 6 x	14 B	376.	13-32 13-33	17.50
3	1 x 12- 6 x		406.2	13-33	18.50
3	1 x 19— 6 x		<b>8</b> 00.	15-33	21.00
1	1 x 19— 6 x	18 B	406.8	13-32	19.00
	1 x 12— 6 x 1 x 16—18 x		437.5	14-32 15-32	20.50
i	1 x 10—18 x	11 8	468.7 437.5	15-32 14-32	22.00 24.00
i	1 x 15—18 x	IA R	501).	16-32	26.00
ö	1 x 10- 6 x		542.5	18 32	30.00
ŏ	1 x 14—18 x	iš B	625	20-32	34.66
0Õ	7 2 7	Ā	542.5	18-32	36.00
00	19 x 12	A	625.	20-32	41.00
00	1 x 13—18 x		667.5	22-32	45.00
000	1 x 8- 6 x		<b>62</b> 5	20-32	60.60
000	19 x 11	Ā	667.5	22-32	63.00
000	19 x 11	Ā	750.	24-32	60.00
0000 0000	7 x 7	В	687.5	22-22	76-00
0000	19 x 12 19 x 12	B	750. 812.5	21-32 24-32	82.90 88.90
ww	TA Y IS		G10.9	<i>2</i> 77–32	-65-W

### Covered Insulation.

Gauge B & S.	Insulation. Outside Diam.	Insulation. Outside Diam	List Prices per 100 Feet.	Last Prices
u = 2	Mile .001 In.	Inches.	Braided	Taped and Braided
6	312.5	10-32	12.00	13.60
6	375.	12-32	14.00	15.60
ő	437.5	11-32	17.50	18.50
š	375.	12-32	14.00	15.00
š	437.5	11-32	18.25	19.25
4	373.	12-32	16.00	17.90
i	437.5	14-32	19.00	20.00
i	500.	14-32	23.00	24.00
š	375	12-32	18.50	19.50
ž	406.2	13-32	20.50	21.50
ž	\$00.	13-32	22.00	23.00
	406.2	13-32	28.00	21.00
‡ ‡	437.5	14-32	21.50	23.90
•	448.7	13-22	23.50	26.90
•	437.6	11-22	25.50 25.50	
i	500.	16-32	28-00	28.00 30.90
ပ်	341.3	18-32	32.80	34.00
ŏ	<b>45</b> .	20-32	32.00	38.00
ര്	342.3	18-22	38-00	48.60
ũ	425	31-25	43.00	
ເນັ	97.3	#-#	47.80	45.00
αŭ	(SS.	20.22		50.00 64.00
άΰ		2-2	62-96	
an			95-99	79-99
ain	780	81-25 31-35	70.00	75-89
ann ann	का 3 780			85.00
6000		환경	90.90 13.80	85.00
••••	FIX 2		27-65	98-00



			Diam. Wire	Diam. Gum	Total Diam.	Approximaté Pounds	Price
Code Word	List No.	B. & S.	in the decimal	87d of inch.	Outside Braid.	Pounds Per 100 Feet	Per 100 Feet.
Sluggard	24150	18	.040	4-32	5-32	2.35	\$1.65
Sluggardy	24151	16	.051	5-32	6-32	2.70	1.80
Sluggish	24152	14	.064	5-32	H-32	X.20	1.80
Bluggishly	24153	14	.064	6-32	7-32	3.40	2.00
Bluggy	24154	14	.064	7-32	8-32	4.79	3.00
Bluge	24155	12	.081	6-32	7-32	4.30	2.50
Bluice	24156	12	.081	7-32	8-32	5.30	3.00
Sluicegute	24157	10	.102	8-32	10-32	7.00	4.09
Bluicy	-24158	10	. 102	9-32	11-32	7.77	4.50
Slum	24159	y	114	9-32	11-32	8.00	4.60
Blumber	24160	8	. 129	9-32	11-32	10.12	4.70
Slumberer	24161	8	. 129	10-32	12-32	10.92	6.09
Blumberless	24162	7	.144	9-32	11-32	10.25	6.20
Slumbery	24163	6	. 162	10-32	12-32	14.00	7.20
Slump	24164	6	. 162	12-32	14-32	15.57	9.00
Slumpy	24165	6	. 162	14-32	16-32	18.72	10.80
Slung	24166	5	. 182	12-32	14-32	16.00	9.60
Slungshot	24167	4	.204	12-32	14-32	20,713	10.00
Slunk	24168	4	204	14-32	16-32	21.87	12.00
Slur	24169	3	.229	15-32	17-32	<b>23</b> .00	12.60
Slurred	24170	2	258	16-32	18-32	31 . 25	15.30
Slush	24171,	1	. 269	17-32	20-32	43.78	20.70
Slusky	24172	0	.324	19–32	22-32	50.00	24.00
Slutch	24173	00	. 355	21-32	2::-32	54.00	30.00
Slutch y	24174	000	.409	23-32	23-32	46.50	37.00
Bly	24175	0000	.460	25-32	27-32	81.00	45.00
			Stn	anded.			
Smeir	24200	10		10-32	12-32	10.94	5.40
Small	24201	8		10-32	12-32	14.06	7.20
Smeller	24202	6		12-32	14-32	20.31	10.80
Smelling	24203	4		14-32	14-32	21.87	13.00
8melt	24204	3		16-32	19-32	-29.69	16.00
Smelter	24205	2		17-32	19-32	34.37	18.00
Smellery	24206	1		18 32	21-32	48.75	24.00
Smerlin	24207	0		22-32	25-32	39.37	30.00
Smew	24208	00		24-32	27-32	65.63	35.00
8micker	24209	000		28-32	29-32	75.50	42.00
8micket	24210	0000		28-32	31-32	90.00	50.00

#### Flexible Clark Wire.

# Diameter of Insulation given in exclusive of Cusside Build. Hade up of No. 26 S. W. G. Wire.

Code Word.	List No.	No. B. & S. Gauge.	Diam. Wire in the decime of an inch.		Humber of Wires.	Dises, Gent Red of Sect.	in Fee.
Smilatine	24212	18	.040	1604.3		1-18	<b>\$2.70</b>
Smilas	24214	16	.061	2682.7	8	5-32	2.70
Barile	24215	14	.064	4106.8	13	7-33	3.00
Smileless	24216	12	.081	<b>9539</b> .9	21	8-22	5.40
Smiles	24217	10	.108	10988.	35	1-22	7-20
Smilingly	24216	8	. 129	16510.	56	12-72	10.80
Smilingness	24219	7	.144	20817.	43	12-32	12.00
<b>Smirch</b>	24220	6	.148	20300.	84	14-32	14.48
Smirk	24221	5	.182	33102.	105	14-22	10.00
Smirky	24222	4	.204	41742.	126	15-22	21.00
Smite	24223	3	. 229	69684	161	17-32	25.30
8miter	24224	2	.258	<b>16373</b> .	203	18-32	28.88
<b>Smith</b>	24225	1	.289	83694.	250	20-32	32.4
<b>Smither</b>	24226	0	.324	105534.	320	22-22	37-20
Smithery	24227	00	.365	1 <b>33</b> 079.	418	24-32	43-29
Smithing	24228	000	.410	167805.	528	25-32	52.80
8mitheonian	24229	0000	.460	211400.	661	28-32	64.80

# Clark Elevator Electric Light Cable.

#### Braided.

		B. & S.	Diam. Gem	Total Diam. Braided.	Prior per
Smithy .	24230	18 Duplex	8-33	9-32	6.00
<b>Smitt</b>	24231	16 -	9-32	11-32	7.00
Smitten	24232	14 -	12-32	27-64	8.00
Smittle	24233	12 ~		16-33	14.00



#### Safety Wire.

#### Plain, without Tape or Braid.

• Code Word.	List No.	Gauge B. & S.	Outside Diam. of Insulation,	Insulation Resistance per Mile. Mezohms.	Price per 100 Feet.
Smock	24234	20	3-32	1000	2,25
Smockable	24235	18	4-32	1500	2.50
Sinoke	24236	16	4-32	1000	2.75
Smokenrch	24237	14	5-32	2000	3.75
Smokeball	24238	12	6-32	1500	4.50
Smokeboz	24239	10	6-32	1000	5.50
Smokejack	24240	10	7-32	1500	6.25
Sinokeless	24241	8	7–32	1000	7.50
Smoker	24242	8	8-32	1500	8.00
Sinnkernil	24243	6	9-32	1500	11.25

# Gauges from No. 20 to No. 4 Braided. Gauges above No. 4 Taped and Braided.

		Gauge B. & S.	Outside Diam. of Insulation.	Outside Diam. Braided.	Insulation Resistance per Mile Megohms.	Price per 100 Feet.
Smaketree	24244	20	3-32	4-32	1000	2.50
Smikily	24245	18	4-33	5-32	1600	2.50
Smakiness	24246	16	4-32	5-32	1000	3.00
Smakny	24247	14	5-32	6-32	2000	3.85
Smalder	24248	12	6-32	7-32	1500	5.00
Smuldry	24249	10	6-32	7-32	1000	6.75
Sm olt	24250	8	8-32	9-32	1500	9.00
Smooth	24251	6	9-32	10-32	1500	12.50
Sinvother	24252	4	11-32	12-32	1000	16.50
Smoothing	24253	· 2	13-32	14-32	1000	25.00
Smoothly	24254	1	15-32	16-32	1200	35.00

#### Stranded Conductors.

#### Heavy Insulation, Taped and Braided.

		Gauge B & S	Outside Diam. of Insulation.	Outside Diam Taped and Braided,	Insulation Resistance per Mile. Megohms.	Price per 100 Feet.
Smoothness	24255	8	9-32	11 32	1200	10.00
Smoonzando	24256	6	10-32	12-32	1200	14.50
8môther	24257	6	11-32	13-32	1500	17.50
Smothiry	24258	4	12-32	14-32	1000	21.00
8mouch	24259	4	13-32	15-32	1500	25.00
Smudge	24260	2	15-32	17-32	1500	28.50
Smug	24261	1	16-32	18-32	1200	37.50
8muggle	24262	0	19-32	21-32	1500	48.00
Smugly	24263	00		22-32	1500	58.50
Sinugness	24264	000		24-32	1500	72.50
Smuly	24265	0000		24-32	1500	90.00

### Safety Lead Incased Wire.

#### For Underground Purposes,

Covered with Heavy Rubber Insulation. Taped and Lead brand.

Code Word.	List No.	Sizes.		Printer
		B. & S. Gauge.		Fush.
Smu -	24266	0000	Stranded,	\$1.00
Smutch	24267	000	M.	.90
Smyrniat	24268	00	16	.80
Snack	24269	0	4	.70
Snacket	24270	1		.64
Snacat	24271	-1	Solid,	.60
Snaffla	24272	3	Stranded.	.56
Snag	24273	2	Solid,	.54
Snagged	24274	4	Stramfed.	.50
Snaggy	24275	4	Solid.	-36
Snatt	24276	6	Stranded	-36
Snake	24277	6	Solid,	-32
Snakeroot	24278	7	Stranded.	.30
Sankereed	24279	7	Solid,	.29
Sunkergood	24280	8	Stranded.	.26
Snakish	24281	8	Solid.	-22
Sanky	24282	10	.4	.18
Sump	24283	12	44.	.12
Samplack	24284	14		.07

### Safety Flexible Cables.

For Switchboards, Dynamos and Lamps.

Composed of Fine Copper Wire, No. 25 B. & S. Gauge, well Tinned Taped and Braided.

		Equal in Conductivity to B; & S. Gauge No.	Insulation Resistance per Mile. Regohms.	Price per 180 Feet.
Snapper	24285	14	1000	12.00
Snappisk	24286	12	1000	13.00
Snappishly	24287	10	1000	13.50
Sanppy	24288	9	1000	14.00
Saare	24289	8	1000	15.00
Snarl	24290	6	1000	16-50
Snarter	24291	4	1000	20.90
Snary	24292	2	1000	30.00
Snatch	24293	1	1000	40.00
Bantcher	24294	0	1000	50.00
Santchingly	24295	00	1000	60.00
Snath	24296	.000	1000	75.90
Sneed	24297	0000	1000	85.00

#### Safety White Core Wire.

# Stranded Conductor.

#### Taped and Braided.

Code Word.	List No.	Gauge B. & S.	Outside Diam. of Insulation	Insulation Resistance per Mile Megohms	Price per 100 Feet
Socie	24380	0	21-32	1590	48.80
Sveman	24381	00	22-32	1500	59.30
Sucmanry	24382	000	24-32	1500	73.30
Socky	24379	0000	26-32	1500	90.80
		Solid Co	onductor.		

# Gauges from No. 20 to No. 4 Braided. Gauges above No. 4 Taped and Braided.

		Gauge B. & S.	Outside Diam. of Insulation.	Outside Diam Braided.	Insulation Resistance per Mile Megohms.	Price per 100 Feet.	
Socia	243684	20	3-32	4-32	1000	2.90	
Socialness	24369	18	4-32	5-32	1500	2.90	
Society	24370	16	4-32	5-32	1000	3.40	
Societ	24371	14	5-32	6-32	2000	4.25	
Socinian	24372	12	6-32	7-32	1500	5.40	
Sociniunism.	24373	10	6 32	7-32	1000	7.15	
Socialogy	24374	8	8 32	9-32	1500	9.40	
Socialogic	24375	6	9-32	10-32	1500	13.30	
8ock	24376	4	11-32	12-32	1000	17.30	
Sockdolager	24377	2	13 -32	14-32	1000	25.80	
Sockless	24878	1	15-32	16-32	1200	35.80	

#### Low Tension Simplex Cables.

#### Tape and Two Braids over Rubber.

# Stranded Conductor.

Code Word.	List No.	Size.	Strands.	Weight per mile incl'd'g Reels.	Outside Diameter.	Price per
Softner	24413	2,000,000 C	. M. 91	45,000	2 6-32	\$3247.60
Softness	24414	1,750,000	<b>4</b> 91	40,000	2 2-32	2859.80
8ngyy	24415	1,500,000	<b>4</b> 91	35,000	1 30-32	2474.50
Soil	24416	1,250,000	4 61	29,000	1 25-32	2072.20
Soiliness	24417	1,000,000	<b>4</b> 61	23,000	1 18-32	1665.00
Soilless	24418	950,000	" 61	22,000	1 17-32	1578.90
Soilure	24419	900,000	· 61	21,000	1 16-32	1514.50
Soily	24420	850,000	4 61	20,000	1 15-32	1430.60
Soiree	24421	800,000	<b>4</b> 61	19,000	1 13 -32	1332.50
Sojourn	24422	750,000	u 61	18,000	1 12 32	1257.20
Sojourner	24423	700,000	" 61	17,000	1 11-32	1184.40
Sojourning	24424	650,000	4 61	16,000	1 10-32	1104.20
Bol	24425	600,000	" 61	15,000	1 9 32	1031-50
Solnee	24426	550,000	u 61	14,000	1 8 32	965.50
Solacement	24427	500,000	4 61	12,500	1 6-32	873.60
Bolacious	24428	450,000	u 37	11,500	1 4 32	776.00
Solanacious.	24429	400,000	4 37	10.500	1 3-32	706.40
Solander	24430	350,000	<b>4</b> 37	81,000	1	609.60
Solunine	24431		" 37	8,000	31-32	540.90
Rujana	24432		u 37	7 (10)	90.79	450.70

### Simplex Lead-Covered Cables, Low Tension.

### Stranded Conductor.

Code Word.	List No.	Star. S	itranda.	Wall	Outside Diameter.	Price per
Secome	24383	1.000,000 C. M.	61	3-33	1 22-32	\$1958-10
Socatran	24384	900,000 "	61	3-22	1 20-32	1837.48
Socatrine	24385	800,000 *	61	3-22	1 18-32	1677-94
Socratio	24386	700,000 *	61	3-22	1 13-32	1488.84
Secratically	24387	600,000 4	61	3-22	1 11-32	1254.60
Socratism	24388	\$00,000 <b>*</b>	61	5-64	1 8-32	1078.76
Secratist	24389	400,000 *	37	5-64	1 4-32	864.36
Bod	24389	200,000 -	37	5-64	1 1-32	705.40
Soda .	24391	260,000 *	87	5-64	30-32	587.50
		B. & S. Geogra.				
Sodnište	24392	0000	27	5-64	29-32	548.40
Sodality	24393	000	37	5-64	27-32	458.48
Sodweater	24394	00	19	5-64	23-32	381.86
Sodden	24395	0	19	5-64	24-32	342.88
Soddy	24396	1	19	1-16	20-32	245.44
Soder	24397	2	19	1-16	19-32	217.64
Sodium	24398	8	19	1-16	15-32	185.58
Sodomite	24399	4	19	1-16	17-32	163.50
Sodomitical	24400	6	19	1-16	16-32	138-16
		Solid Con	ductor			
Sofa	24401	1		7-16	19-32	224.52
Sofett	24402	2		1-16	18-32	195.58
Soft	24403	3		1-16	17-32	170-26
Softem	24404	4		1-16	16-32	147.32
Safflet	24405	6		1-16	15-32	121.82
8oft	24406	8		1-16	14 - 32	101.00
Soften	24407	10 (8–32)		3-64	12-32	67.26
Softoner	24408	10 (7–32)		8-61	10-32	56.32
Softish	24409	12 (7–32)		3-64	10 32	53.62
Softling	24410	12 (6-32)		3-64	9 32	49.00
Softly	24411	14 (6-32)		8-64	9-32	48.28
Softman	24412	14 (5–32)		<b>3-64</b>	8-32	39.96

# Simplex Caoutchouc Wire.

# Solid Conductor, Braided.

Code Word.	List No.	Size. B. & S. Gauge.	Diameter over Rubber.	Diameter over Braiding.	Price per Foot.
8 neak	24298	1	14-32	17-32	.314
8 neaker	24299	2	13-32	16-32	.261
Sneaking	24300	8	12-32	15-32	.224
Sneakingness	24301	4	11-32	14-32	. 172
8neap	24302	5	10-32	12-32	.15
8neck	24303	6	9-32	11-32	-121
Sneckband	24304	7	17-64	21-64	.11
Sned	24305	8	8-32	10-32	·09 <del>1</del>
Sneer	24306	9	15-64	9-32	.084
Sneerer	24307	10	7-32	8-32	-07±
Sneerful	24308	12	6-32	7-32	-051
Sneeringly	24309	14	5-32	6-32	.034
Snoos	24310	16	9-34	11-64	.037
Snecessood	24311	18	4-32	5-32	.031

#### Stranded Conductor, Braided.

_		Size B. & S. Gauge.	Number of Strands.	Diameter over Rubber.	Diameter over Braiding.	Price per Foot.
8 nomenoors	24312	0000	37	22–32	26-32	.76
Snoczeroood	24313	000	37	20-32	24-32	.04
8nell	24314	UO	19	18-32	22-32	.50 <u>1</u>
8nep	24315	0	19	17-32	21-32	.441
Bnickup	24316	1	19	15-32	18-32	.341
Bnicker	24317	2	19	14-32	17-32	.311
8n <b>if</b>	24318	3	7	13-32	16-32	.25
Snift	24319	4	7	12-32 .	15-32	.211
8nig	24320	5	7	11-32	14-32	-17+
Snigger	24321	6	7	10-32	12-32	.148
Sniggle	24322	7	7	19-64	23-64	.124
Snip	24323	8	7	9-32	11-38	-114
Snipe	24324	9	7	17-64	10-32	.11
Snipebill	24325	10	7	8-32	9-32	.091
Brivefish	24326	12	7	7-32	8-32	.077
8nipper	24327	14	7	6-32	7-32	.061
<b>Bnipenap</b>	24328	16	7	5-32	6-32	.048

#### Climax Wire.

#### Solid Conductors, Braided

Code Word.	List No.	Size B. &. S. Gauge.	Diameter over Rubber.	Diameter over Braiding.	Price per Find.
Snithy	24329	1	14-32	16-32	\$ -29)
Suicel	24330	2	13-32	15-82	.24
Snireler	24331	3	12-32	14-32	.20
Sniedy	24332	4	11-32	25-64	-16]
Snob	24333	6	10-32	11-32	-13)
Snabberg	24334	6	9-39	10-32	-101
Snobbish	24335	8	8-32	9-32	.08
Snobbishly	24336	10	7-32	8-32	-054
Snabhishness	24337	12	6-32	7-32	.04)
Suobhism	24338	14	5-32	6-32	-034
	51	tranded Con	ductors, Braid	led.	
			o. of Diam ove	t Diam. over	
Sunking	24339		37 23-32	25-32	.73
Sonky	24340	000	37 20-32	23-32	.601
Sant	24341	00	19 18-32	21-32	.48
Soap	24342	0	19 17-32	50-25	.41
Sonpauda	24343	1	19 15-32	17-32	.311
Sonpicort	24344	2	19 14-32	16-33	.26!
Soapy	24345	3	7 13-32	15-32	.211
Soar	24346	4	7 12-32	27-64	.18
80 <b>b</b>	24347	5	7 11-32	12-32	.15}
8ober	24348	6	7 10-32	11-32	. 12]
Soberize	24349	8	7 9-32	10-32	.09
Soberty	24350	10	7 8-32	9-32	.87

# Simplex Caoutchouc $\Pi$ ining Wire.

Covering

# Solid Conductor. B. & S. Diam. over

		Gauge.	Rubber.		over R	, ist	er.	
Soberness	24351	1	17-32	T	pe and	3 1	Braids.	.44i
Suboles	24352	2	16-32		u.	3	•	.39
Soboliferous	24353	3	15-32	4		8		.33
Sobriety	24354	4	14-32		ч	Z	*	.28
Sobriques	24355	5	12-32	3 1	Braids,			.21
Soc	24356	6	11-32	3	•			.18
Socage	24357	8	9-32	3	4			.13
Socager	24358	10	8-32	3	íu.			-10
Sociability	24359	12	7–32	3	44			.88
Sociable	24360	14	6-32	3	•			.06
		C4						

Socager Sociability	24358 24359	10		8-32 7-32	3	íu u		.107 .081
Sociable	24360	14		6-33	3	•		.06
		Str	anded	Conduct	or.			
		B. & S. Gauge.	No. of Strands	Diam over		Covering		
Sociableness	24361	0000	37			and 3 I		1.03
Sociably	24362	000	37	24-32	-	3	4	.881
Social	24363	00	19	<b>22 32</b>	•	3	•	.734
Socialism	24364	0	19	20-32	**	- 3	4	.621
Bocialist	24365	1	19	18-32		3.	46	-52)
Bocialistic	24366	2	19	17-32	-	3		.44)
Socialise	24367	3	7	16-32	-	2	*	.364
Specially	24368	4	7	15-33	-	2		-321

Link Print

A4 A3 A3 A3 A4 A4 A4 A4

.46 .48

.48 .54

.54

.59

.56

.59

.59

.60

.68

.70

.76

.83

.90

1.00

1.10

1.35

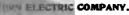
1.50

1.65

1.80

1.95

2.40



List No.

# Magnet Wire.

#### de Cotton Covered.



Nos 1700 to 1790.

3879 3880 3881

Alt

Alterao

Altered

Alternati

Alternatu

Jingling

J.az

Alternatively

3892 3893 3894

3900 18 3901 19 1700 20 1701 21 1702 22 1703 28

3 4

5 7

8

9

10

11

..

Jorkeyr ng 24 1704 25 1705 1706 26 1707 27 28 1708

Jerrug 1709 Jungly 1710 1711 J - kry 1712

29 30 81 83 1713 33 34 1714

35

36 37

. .

2.85 3.25 4.37

6.75

Jon nder Jollify 1715 Liliment 1716 Jollity 1717

1718 1719

1720

# Magnet Wire-(Continued).

### Double Cetten Covered



Code Work	List Fo.			•	_
Although	3902	0000 P	er pou	md	8.46
Altitude	3963	800	44		Æ
Alum	3004	60	••		.#6
Alvege	3903	•	**		Æ
Ameia	3983	1	••		AN
Ambres	3007	8	*		ANK .
Ambresia	3903	8	•		ABK
Ambresial	2000-K	4	•	******	.A3%
Ambreeien	2010		•		.46
Ambry	1106		60		.#6
Ambulant	3012	7	•	*******	,A
Ambulate	3913		**		A7
Ambulation	3914	•	•		.48%
Ambulation	3915	10	•		.48%
Ambulatory	3916	11	**		.82
Ambruscade	3917	13	**	·····	.\$2
Ambumaded	3918	18	**		.58
Ambushed	3919	14	**		.58
Andia	3920	15	**		.00
Amerable	3921	16	<i>:</i> *		.00
Amend	3922	17	••		.65%
A mended	3923	18	**		.65%
Amendment	3924	19	**	••••	.71%
Joyful	1721	20	**		74
Joyfully.	1722	21	**	<b></b>	88
Joyful nass	1723	23	**	••••••••	95
Joyous	1724	22	**		1.95
Joyously	1725	34	**	••••••	. 1.14
Joyousness	1726	25	*	***************************************	. 1.27
Jubilant	1727	26	••		1.38
Jubilate	1728	27	••	•••••••	. 1.57
Jubilation	1729	28	••		1.69
Judah	1730	20	••	******	. 1.89
Judíci <b>al</b>	1731	80	••		2.07
Judicious	1732	81	••		2.23
Joerphine	1733	83	••	••• •••••	2.28
Joshua	1734	88	••		2.85
Josiak	1735	34	••	•••••	3.42
Justle	1736	83	••	••••	3.86
1 .41.2	4707	-	44		4.63

. . .



# Magnet Wire-(Consumued).



Single Silk Covered.										
Code Word.	List No.				List Prior					
Jospandy	1650	No	16	ner nound	\$1.1	2				
Jerbos	1651		17.			2				
Jeromiad	1652		18.		I.I	5				
Jeromiak	1653		19.	••		5				
Jerker	1654	••	20.	••	I.I	8				
Jerkin	1655	••	21.	••	1.2	0				
Jersey	1656	••	22,	"	1.3	0				
Jeruska	1657	**	23,	••	<i>.</i> 1.4	2				
Jerola	1658	64	24,	••		6				
Joseph	1659	••	25,	••	1.8	ı				
Jester	1660	"	96,	**	2.1	0				
Jestful	1661	••	27,	••		5				
Jeeling	1662	••	28,	••	2.3	8				
Jeouil	1663	**	29,	••	2.7	5				
Jehovek	1664	••	80,	,,	2.9					
Jekovist	1665	**	81,	••		5				
Jelly	1666	••	32,	••	3.4	5				
Jemima	1667	••	83,	"	3.9	0				
Jennet	1668		84,	••		0				
Jenneting	1669	••	85,		······ · <b>5.8</b>					
Jentling	1670	••	86,	"	<b>7.0</b>	_				
Jeopard	1671	"	87,	**	11.0	•				
Jooparder	1672	••	<b>3</b> 8,	••						
<b>Jeoparding</b>	1673	••	89,			_				
<b>Jeop</b> ardize	1674	••	40,	**		0				
			Do	ouble Silk	Covered.					
Jesuitic	1675	No.	16,	per pound						
Jetsam	1676	"	17	**	1.5					
Jettison	1677	••	18	••	, 1.5	-				
Jetteau	1678	"	19	**	1.5					
Jelly	1679	**	20,							
Jewel	1680	• •	21.	••						
Jorocled	1681	••	22,	"	1.7					
Jeweler	1682	**	28,	**						
Jeweling	1683	••	24,		2.1					
Jewelry	1684	••	25,	••	2.4					
Jewess	1685	**	26,		2.8	_				
Jewish	1686	••	27,	**	3.0					
Jib	1687	**	28,		3.2	_				
Jibboom	1688	**	29,		3.7	-				
Jibdoor	1689	••	80,	"	4.0	_				
Jibe	1690	**	81,		4.4	_				
Jibing	1691		82,		4.5					
Jigger	1692	**	33,		5.1					

#### German Silver Resistance Wire.

WOUND WITH COTTON OR SILK—COVERING FIRMLY ADDRESSES TO THE WITH—AMERICAN OR BROWN & SILKEPE GATOR.



			Cotton	Covere	đ.		
			List Price Single.				List Price Double.
No.	16,	per por	ind \$1.40	No.	16,	per pou	nd\$1.70
**	17,	- 11	1.40	**	17,		1.70
**	18,	. 11	1.40	**	18,	- 64	1.70
**	19,	**	1.40	11	19,	18	1.70
**	20,	75	1.42	***	20,	.10	1.74
**	21,	44	1.44	**	21,	**	1.75
*	22,	**	1.52	**			1.83
**	36,	w	1.52	**	28,	44	1.96
44	24,	**	1.71	4+	24,	**	2.09
44	25,	**	1.84	**	25,	**	2.26
**	26,	**	2.65	••	26,	**	2.48
••	27,	••	2.25	**	27,	ė.	2.73
••	26,	••	2.45	**	26,	**	2.98
• •	29,	**	2.60	"	29,	44	3.13
**	30,	**	2.84	"	30,	**	3.38
**	81,	**	3.09	**	81,	••	3.66
••	82,	**	3.59	"	83,	••	4.21
••	83,	••	3.96	**	83.	**	4.64
••	34,	••	4.61		84.	••	5.44
••	35,	**	5.01		35.	**	5.69
**	86,	**	8.09	"	36,	••	8.88
**	87.	**	13,00	**	87.	**	13.75
••	38,	••	24.00	**	88.	**	27.00
**	89,	•	27.00	**	89.	**	30.00
••	40,	**	30.00	"	40,	••	33.00
					-		

#### Slik Covered.



	Silk Co	vered.	
No. 16, per pound	1.85	No. 16, per po	und 2.38
" 17, "	. 1.85	" 17, "	2.38
" 18, "	. 1.85	" 18, "	2.38
" 19, "	. 1.85	" 19, "	2.38
" 20, "	. 1.88	"20, "	2.43
" 21, "	. 1.93	" 21, "	2.48
" 22, "	. 2.06	" 22, "	2.64
" 23. "	. 2.21	"23. "	2.87
" 24, "	. 2.37	24	3.08
" 25. "	. 2.65	" 25. ··	3.48
" 26. "	. 3.02	" 26, "	3.93
" 97. "	. 3.23	" 27. "	4.20
" 28, "	. 3.42	28	4.43
" 29. "	. 3.85	29	5.00
" 30, "		" 80. "	5.33
* 81. "	1111	" 81. "	5.81
** 89. **		·· 89. ··	6.23
** 83. **	217.0	" 83. "	6.89
** 84. **		" 34. "	7.29
** 85. **		" 85, "	9.45
" <b>36</b> , "		" 36, "	11.75
" <b>87</b> , "		57	22.60
* 38. **		" 38. "	33.00
** <b>30</b> , **		" <b>89</b> . "	48.98
		4 <b>40</b> . 11	
	.70.00	₩. ·	50.00

### Weatherproof Wire-Triple Braid.

#### SPECIAL PRICES QUOTED ON APPLICATION.



Code Word.	List No.	Size, B. & S. Gauge.	Circular Milis.	Weight per 1,000 ft.	Weight per Mile.	Price per lb.
Not(fy	6761	••••	500000.	1867	9858	
Notion	6762		450000.	1680	8870	
Nimbleness	6763		400000.	1498	7883	
Nimb	6764		850000.	1307	0901	
Nimbus	6765		300000.	1120	5914	
Ningold	6766		250000.	903	4926	
Ninepine	6768	0000	211600.	739	8903	
Ninny	6769	000	167805.	598	3157	
Nip	6770	00	133079.2	485	2561	
Nippers	6771	0	105534.0	395	2086	
Nitid	6772	1	83694.0	313	1653	
Niter	6773	2	66373.0	251	1325	
Nitrate	6774	3	52633.4	205	1082	
Nitric	6775	4	41742.5	168	887	
Nitrogen	6776	5	33102.3	139	734	
Nitrous	6777	6	20250.5	113	597	
Nobility	6778	8	16509.0	74	391	
Noble	6779	10	10381.0	51	269	
Nobleman	6780	12	6529.9	27	170	
Nobleness	6781	14	4107.	23	118	
Nobleses	6782	16	2383.	16	81	
Nobby	6783	18	1624.	18	58	••••

#### Weatherproof Wire-Triple Braid.

SPECIAL PRICES QUOTED ON APPLICATION.

#### Hard Drawn Copper.

Haunled	8749	No.	8. E	3. & S.,	per mile	e	
Haunting	8750	**	9,	••	**		
Haroc	8751	•	10,	••	••		
Havek	8752	•	12,	••	••		
Hawking .	8753	••	14,	••	••		

# Triple Braid Weatherproof Iron Wire.

SPECIAL PRICES QUOTED ON APPLICATION.

Rasard	9073	No.	8, B.	W. G.,	per mil	le	٠.	٠.		 	
Hasarded	0074	**	9,	"	**		٠.	٠.		 	
Hasarding	9075	**	10,	••	**			٠.		 	
Hazardous	9076	••	11,	**	**		٠.			 	
Helen	6077	**	18,	**	••		٠.			 	
Mary	9078	**	14,	••	••		••	٠.	••	 •••	••••

#### Underwriters' Wire.

#### SPECIAL PRICES QUOTED ON APPLICATION.



		Nos.	APPROXICAL INSULA	TO WENGET
Code Work	List No.	R. & S. Gauge.	Per 1,000 ft	Per Mile
Jobber	1 600	0000	670	2338
Jabberer	1001	000	555	2930
Jabbering	1602	00	440	2223
Jecemer	1603	0	256	1880
Jackai	1604	1	284	1300
<b>Jackana pes</b>	1005	2	233	1340
Tackes	1 600	8	190	1003
Tackblock	1607	4	138	831
Percipalano	1606	5	127	670
Tacob	1606	6	103	334
facebis	1610	7	83	449
Tacubine	1611	8	60	364
ucobinize	1813 \$	10	47	232
Incobus	1615	12	31	163
Tude	1617	. 14	20	105
Jading	1619	16	15	79
Jugyed	1621	18	••	

#### Fire and Weatherproof Wire.

#### SPECIAL PRICES QUOTED ON APPLICATION



Triple Braid.								
Japanner	1624	0000	753	3077				
Jurble	1625	000	594	3136				
Jaryle	1626	00	500	2040				
Jargon	1627	0	375	1990				
Jarmin	1628	1	304	1003				
Jasper	1629	2	230	1320				
Jaspeul	1630	3	210	1106				
Janualice	1631	4	160	892				
Jacel	1632	3	133	712				
Jarelin	1633	6	110	580				
Jawhone	1634	7	93	491				
Jay	1635	8	80	423				
Jaguar	1637	10	35	290				
Jumbee	1639	12	38	200				
June	1641	14	26	137				
Jangle	1643	16	20	106				
Jangling	1645	18	•••	•••	•••••			

#### Flexible Incandescent Lamp Cord.

Electric Light Elevator Cable.

2097 Flexible, two conductors, No. 16.......

	r	EXIDIC	HIG	andes	Cent L	mp cora	•
_				Tape	ed.		
				Silk Co	vered.		
	Code Word.	List No.		Gauge.		Conductor.	Price per Yard.
_	Cannibal	3956	No	. 22, B.	& S.	10x30 Wires.	\$ .12
	Cannon	3957	•	20.	••	14x30 "	.12
	Cannondale	3958	**	18.	••	16x30 "	.16
	Canny	3959		16,	**	25x30 ·	.19
	Canos	3960	••	14,	••	40x30 "	.29
	Canonical	3961	••	1-3,	••	00x30 "	.40
	Canonise	3962	"	10,	:	118x30 "	.50
			Cor	tton or '	Worsted.		
				Gauge		Conductor.	
	Canopy	3963		o. 23, B.		10x30 Wires	.07
	Opniaia	3964	••	20,	*	11130	.07
	Ountation	3965	••	18,		16x30 "	.01
	Canteen	3966	**	16,		201/10	.13
	Canter	3967		14.		10X30	.21
	Canterbury			12,		U/X3U	.3
	Cantering	3969	**	10,		118x30	.4:
		Galva	anize	d Ste	el Wire	Strand.	
			7 Wires. No.		Weight per		
	Aboriginal	3052	No. 8	Diam.	100 Peet. 53 lbs.	Strength. 8,320 lbs.	2.40
	Aboriginas	3052	Ď	⅓ in.	42 "	6.720	2.05
	Aborsement		10	33	36 "	6,720 "	1-80
	Coupe	3055	11	% "	29 "	4,640 "	1.50
	Coupling	3056	13	<i>7</i> . "	21 "	8,360 "	1.15
	Coupon	3057	13	<b>"</b> "	16 "	2,500 "	.90
	Abound	3058	14	ii	12 "	1,020 "	.70
	Abounding	3059	15	<b>"</b> "	10	1,600 "	.60
	Abote	3060	16	î	8 . "	1.280 "	.55
	Abrade	3061	17		6,	960 "	.42
	Abraham	3092	18	11	48 "	688	-38
	Abrasion	3063	10	<b>;</b> ;	3,3	528 "	.35
	Abreast	3093	20	× "	2,4 "	381	.30
	Abridge	3065	21	å "	3' "	320 "	.28
		Galv	vaniz	ed Ar	c Lam	p Cord.	
			w	ith He	mp Center	•	
	80mmiferon	25075	No.	å in	ch		Popr0 03
_	Knock	19760	No. 20		nch		
	Knocked	19761	No. 20				02
	Knocker	19762	•	16 A			01
	Knocking	19762	1 28				0
	Knoll	19764	" 20		• •	· · · · · · · · · · · · · · · · · · ·	
			San	nson	Cordag	e.	
	Larcerating	7 2695	Cotton	. A. inc	h diameter	·	Per 15
	Twee cearming						• • • •

Clarify

## Flexible Incandescent Lamp Cord.

		V	ulc	an	ite.				
		s	ak (	Cove	red.			Los Print	
Word.	List No.	Wa	Goty	ge. B. &	g.	10 x 30 1		Per Yunt. \$0.12	
r r	25025 25026	No.	20.	D. 00	O.	14 x 30		.12	
	25027		18,	*		16 x 30		.16	
ice	25028		16,	- 64		25 x 30	-	.19	
ital	25029		14,	**		40 x 30	-	.29 .40	
dity	25030		12,			60 x 30	2	- 50	
de	25031		10,			118 x 30	-	-31	

Cotton or Worst

10 x 30 Wires. 14 x 30 = 16 x 30 = 25 x 30 = 40 x 30 = 118 x 30 = 25032 25033 25034 25035 25036 25037 25038 .07 * 20, * 18, * 16, * 14, * 10, 21 12

Unle s otherwi

### Moulded.

		s		Covered.			
Belochieness	25039	No.	21	B. & B.	10 x 30 V	Vires.	.12
Roles	25040	•	20,		14 x 30	•	.12
Solvency	25041		18.		16 x 30	•	.16
Sulpent	25042		16.	•	25 x 20	•	.19
Bolser	25043		14.		40 x 30	- 66	.29
Semative	25044	•	12.		60 x 30	•	.48
Somation	25045	•	10,	•	118 x 30	•	-50
		Cett	08	or Worst	od.		
Sometics	25046	No.	22.	B. & S.	10 x 20 7	Tires.	.87
Sometiat	25047		20,		14 x 20	•	.07
Bomatalogy	25046	•	18.		16 x 20	•	.89
Semaletemy		•	16.		25 1 30		.12
Sember	23050	•	14.		40 x 30	•	.21
Sombortu	25061	•	12.		60 x 30	•	.32
Samberness	25052	•	10,	•	118 z 30	•	.42

10 x 20 Win 14 x 30 ** 16 x 30 ** 25 x 30 ** 40 x 30 ** 60 x 30 ** 118 x 30 ** Special Packing House Cord.

For use in all places where cord is exposed to action of steam and brine.

	Property and the property of t	er Foot
Acrese Acrese Acreser	25665 No. 16 B, & S	#
Smabrero	Cotton Sleeving.	rrice Per 10 Yards

1.50 1.50 1.50 1.50 2.40 4.60 . . . . . ..... 11 5 4 3 1 0 24567

# Braided Office Wire. Approximate Weight.

		. to lb.		FL to 1b.	
	No. 4	8 12	No. 16	95 120	
	<b>6</b>	20	" 17 " 18	185	
	" 12	40	" 19		
	" 13	45	. 20	155	
	" 14	60		•	
Code Word.	List No.				st Price.
Pacific	15800 No. 12, p	er pou	nd		\$ .40
Paducak	15801 " 14,			• • • • • • • • • • • • •	.42
Puige Puisley	15802 " 16, 15804 " 18,				.44 .46
Pujaro	15805 " 20.				.48
	Weatherp	roof	Office V	Vire.	
Palistine	15810 No. 14, p	er pour	n <b>d</b>		.46
Palisads	15811 " 16,	**			.48
Pulmer	13012 10,			• • • • • • • • • • • • •	.50
Palmyra	15813 " 20,		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	.52
	Off	ice (	Cables.		
From	10 to 100 conductor		a of any siza	10 No. 20 B	
& S. FAUE	copper wire, cover	red wit	h cotton com	pactly cabled	
together,	and braided in any	color o	or combinatio	u of colors.	
Paraffine f	nish, per pound				.50
Paint finis	nish, per pound h, per pound				.50
	Finer conducto	rs sub	ject to special	prices.	
	Annu	ncia	tor Wire		
	D	ouble-	Wound.		
	Аррі	oxima	te Weight.		
	F	oxima L to lb.	•	Ft. to ib.	
	No. 12	L to 1b. 45	No. 18	160	
	No. 12	L to 1b. 45 67	No. 18 " 19	160	
	No. 12	45 45 67 103	No. 18 " 19 " 20	160 200 225	
Palo	No. 12	45 45 67 103	No. 18 " 19 " 20	160 200 225	.36
Pana	No. 12	L to 1b. 45 67 103 er pou	No. 18 " 19 " 20	160	.38
Pana Panana	No. 12	45 45 67 103	No. 18 " 19 " 20	160 200 225	.38 .40
Pana Panana Panora	No. 12	45 67 103 per pou	No. 18 " 19 " 20	160 200 225	.38 .40 .42
Pana Panana	No. 12	45 67 103 ber pou	No. 18 " 19 " 20 nd	160 200 225	.38 .40
Pana Panana Panora Paola Paradise	No. 12	10 1b. 45 67 103 per pou	No. 18 " 19 " 20 nd		.38 .40 .42 .44 .46
Pana Panana Panora Paola Paradise	No. 12	10 1b. 45 67 103 per pou	No. 18 " 19 " 20 nd		.38 .40 .42 .44 .46
Pana Panana Panora Paolo Paradise  Doi Paragon	No. 12	45 67 103 per pou	No. 18	160 200 225 225	.38 .40 .42 .44 .46
Pana Panana Panora Paola Paradise	No. 12	45 67 103 per pou	No. 18		.38 .40 .42 .44 .46
Pana Panana Panora Paolo Paradise  Doi Paragon	No. 12	to lb. 45 67 103 ber pou	No. 18	160 200 225	.38 .40 .42 .44 .46
Pana Panana Panora Paolo Paradise  Doi Paragon	No. 12	to 1b. 45 67 103 er pou  tor  per pou  Fixti	No. 18	200 225	.38 .40 .42 .44 .46
Pana Panana Panora Paolo Paradise  Doi Paragon	No. 12	to 1b. 45 67 103 ser pou tor Fixtuag Gas	No. 18	200 225	.38 .40 .42 .44 .46
Pana Panana Panora Paola Paradise Doi Paragon Parham	No. 12	to ib. 45 67 103 per pou tor Fixtuag Gas	No. 18	200 225	.38 .40 .42 .44 .46 .46
Pana Panana Panora Panora Paols Paradise  Doi Paragon Parham  Paris Paris Parkdale	No. 12	to 1b. 45 67 103 ser pou tor Fixtuag Gas c, Yello	No. 18	ator Wire	.38 .40 .42 .44 .46 .42 .44
Pana Panana Panora Panora Paols Paradise  Doi Paragon Parham  Paris Purkdale Parker	No. 12	to ib. 45 67 103 ber pour tor Fixti ig Gas ., Yello Triple Five	No. 18	ator Wire	.38 .40 .42 .44 .46 .42 .44
Pana Panana Panora Panora Paols Paradise  Doi Paragon Parham  Paris Paris Parkdale	No. 12	to 1b. 45 67 103 ser pou tor Fixtuag Gas c, Yello	No. 18	ator Wire	.38 .40 .42 .44 .46 .42 .44
Pana Panana Panora Panora Paolo Paradise  Doi Paragon Parham  Paris Purkdale Parker Purma Pornell	No. 12	to 1b. 45 67 103 ser pour tor	No. 18	ator Wire	.38 .40 .42 .44 .46 .42 .44
Pana Panana Panora Panora Paola Paradise  Doi  Paragon Parham  Paris Parkedale Parker Parma Pornell Parnell	No. 12	tor  Fixte  Graph  Fixte  Triple  Triple	No. 18	ator Wire	.38 .40 .42 .44 .48 .44 .44
Pana Panana Panora Panora Parolis Paradise  Doi Paragon Parham  Paris Parket Parket Parma Pornell Parsons Pano	No. 12	L to 1b. 45 67 103 ser pou Fixtl ag Gas Yello Triple Triple Five	No. 18	ator Wire	.38 .40 .42 .44 .48 .42 .44 .44 .90 1.00 1.50 1.35 2.00 2.50 3.00
Pana Panana Panora Panora Paola Paradise  Doi  Paragon Parham  Paris Parkedale Parker Parma Pornell Parnell	No. 12	tor in the second of the secon	No. 18	ator Wire	.38 .40 .42 .44 .48 .44 .44



# Lead Covered Wire.

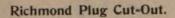
		400.00		Sin	gle C	onduct	or.			
	Code word.	List No.							lat Prior.	
	Pattern	0.00						04		
	Potoka	15846	**	16,	**	**	-	**********	.05%	
	Paton	15847	**	18.	**		-14		.04%	
				Do	able C	onduct	or.			
	Plattvilla	15848	No	14.1	R & S	pauge	per fo	ot	.14	
	Pauline	15840	11	10	14	Pane.				
	Pavillien.	15850	••	18.	14	••	••.			
				Th.	C	aducto	_			
			<b>.</b>					-4	21	
	Paunos				B. <b>2.</b> 5	. gauge	:, per 10	ot		
	Partucket	15852	**	16,				.1		-
	Parion	15853	••	18,	••	••	••	••••••	,10,	•
				Pia	tinu	m V	Vire.			
	Pagne	15860	No	19	ner in	ch			. 1.1	
	Payeon	15861	**	14.	p					73
	Peubody	15862		16.				. <b></b>		M
	Pike	15863		•				••••••		40
	Pilot	15864						••••••		31
•	Pinkard	15865								21
	Pine	15866								.15
	Pioncer	15867		,	ner fo					.85
	Piqua	15868			per 10					.78
	Pittafield	1 5869	•	,						.50
	•			•••						.35
	Plainfield Plainview	15870	•	٠-,						25
	Plano	15872	•	,						28
	Tano	19072	•	50.		••••	•••••			
								re per fuol.		
	No. 12				<b></b>			310	17 gr	ri 23
	" 14				<b></b> .		. <b></b>		5.4	
	" 16		<b></b>		. <b></b> .			12	2.8	••
	18 .							7	7.3	•1
								4		**
								<b>3</b>		••
								1		"
•								1		4
									7 60	•
									4.79	••
									3.01	••
									1.60	"
									LLD	•
	- 20.		••••	• • • • •						

#### Pliable Cord.

#### Bare Timeel Cord.

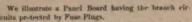
	Code Word.	List Xo.		List Price. For Yard.
	Plover Plymouth	15875 15876	Gold, smal	
			Covered Times Cord.	
			Single Conductor.	
	Pocahonias Polk Pomeroy Pomona	15877 15878 15879 15880	Silk covered, gold, No. 15873	98 10
			Double Conductor.	
			For Pear-shaped Push.	
	Ponquel Ponca	15881 15882	Silk covered, No. 15875	
			For Floor Push.	
	Pontiae Poplar	15883 15884	Silk covered, No. 15876	
•			For Loops, Extra Heavy.	
	Portage Posey	15885 15886	Silk coveredLinen "	
			Special.	
	Potosi	15887	Several strands of linen thread covered with bare tinsel wire; second covering o spiral iron wire covered with linen	ľ
		Cop	oper Conducting Cords.	
•	•		Single Conductor.	
			Composed of 25 wires No. 83, equal to No. 18 B. & S. gauge.	
	Potedam Potedl	15890 15891	Bilk covered	
	2 ones	13031	Composed of 40 wires No. 31, equal to	
	Pratt	15892	No. 16 B. & S. gauge. Silk covered	15
	Prebla	15893	Worsted "	
	<b>.</b>		No. 14 B. & S. gauge.	
	Prentice Prescots	15895 15896	Worsted "	15
			Composed of 51 wires No. 29, equal to No. 12 B. & S. gauge.	0
	Pritchards	15894	Silk covered	
	Prospect	1 5897	Worsted "	18
			Each conductor same capacity as No. 14	
	Proco Puchio	15898 1 <b>5899</b>	Slik covered	45





#### Panel Board.

Patented Dec. 21, 1897.



tuits prefected by Puse Plugs.

These Boards are especially designed for Cut Out Cabinets and can be made with any number of circuits.

Cabinets and can be made with any number of circuits. for use on the 2-wire or 3 wire systems.

The suckets for the plugs are formed in the slate base and the plugs screw into the bus bars in the back.

The Fuse Plugs are mude of porcelain, in one piece, and are intended to be re-fused. New Fuses can be put in without the use of solder.

The Fuse, being entirely enclosed in the socket, cannot blow out through the front when melted.



Prices on other sizes quoted on application.



#### Fuse Plugs.

For use with Richmond Panel Boards.

Acrila	25618	3	Ampere	capacity	*************************	15
Arriban	25619					15
Arcitical	25620	9	- 9	4		15

#### Fuses.

Acrity	₹5621	æ	Ampere	capacity		.05
Acrobat	25622	6	44	44	and the control of th	-05
Acrobatic	25623	y	16	**		.05



Front View of Wagner Co.'s Ammeter.



Side View of Wagner Co,'s Ammeter.



The Wagner Co.'s, Wattmeter.

#### Wagner Electric Mfg. Co.'s Dead-Beat Illuminated-Dial Switchboard Instruments.

This line of instruments embodies many now The instrument cases extend through the box scales are filluminated by two 10 candles po which stand sufficiently far back to also illustrar of the switchboard. The movements are light colorless oil for the purpose of security dead beat action. The cases are highly is black, while the front covers are of polished instruments are extremely sensitive, yet abs void of continuous oscillations which make to get an accurate reading on most alternationstruments. The line includes ammeters, and wattmeters for alternating current, and shortly be followed by a corresponding line currents. Ammeters up to 100 amperes cay the entire current, above that amount a seriest is provided. Prices below include this a former. Voltmosters are wound for the voltage Wattmeter pressure coils are wound for 100 we transformers are provided for series coils o meters when the series current is over five as

#### Ammeters.

Code Word.	List No.				Last Pr	
Acrochard	25624	Scale, 0 to	10	amperes		3
Arrichardu	25625	0 to	15	*	45	20
Aerogan	25626	0 to	25	*		
Aeroleline	25627	0 10	50		45	
Arropolis	25628	0 to	75	*	45	æ
Acrospire	25629	0 60	100		55	.00
Acrospired	25630	0 to	150		55	
Acrons	25631	0 to	200	77	********* 60	.00
Acroter	25632	0 to	250		66	
Acroterial	25633	0 to	300		65	
Armite	25634	O to	400		Jantes 20.	90
Art	25635	0 to	500	H	·***** 75	00
Action	25636	0 to	600		75	.00
Artinia	25637	0 to	700	**	75	80
Actionio	25638	0 to	800		75.	.00
Activiform	25639	0 to	100	-	75	DO
Actinoid.	25640	O to	1000		80	.00
Actinotite	25641	'0 to	1200	4		00
Actinolitie	25642	0 10	1500	10-	85	-00
Action	25643	0 to	2000	4	- Luca 90.	.00

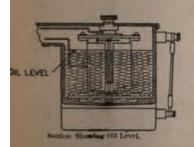
Actsunable	25644	Scale, 0 to	60	volta		50.00
Actionably	25645	n to	120	*	· 6. mm	55.00
Actionary	25646	0 10	150		***********	50.00



Side View of Wagner Co.'s Voltmeter.



Rear View of Wagner Co.'s Voltmeter,



## Wagner Electric Mfg. Co.'s Instruments.

-(Continued.)

#### Wattmeters.

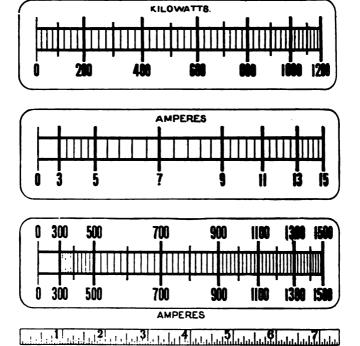
Code Word	List No				List Price
Actionist	25647	Scale, 0 to	100	watts	\$65.00
Actionsermo	25648	-0 16	200		65.00
Astitation	25649	G to	300	*	65.00
Artisute	25650	0 to	400		65.00
Active	25651	0 to	500		65.00
Artisely	25652	0 to	750	40 110000	65.00
Actiones	25653	0 to	1000	*	65.00
Activity	25654	0 to	2	kilowatts	65.00
Actions	25655	0 to	3		70.00
Ador	25656	0 10	0	*	70.00
Actual	25657	0 to	10		75.00
Actuality	25658	0 to	25		75.00
Actualization	25659	0 to	30		95.00
Artunties	25660	0 to	75		95.00
Artually	25661	0 to	100		100.00
Actualness	25662	0 to	200	* ******	110.00
Actuation	25663	0 to	300		
Actuator	25664	0 to	500	·	120.00
Actume	25665	0 to	750		125.00
Actionity	25666	0 to	1000	* *******	130.00
Acture	25667	0 to	1200		135.00
Acuttion	25668	0 to	1500	*	140.00
Acutitatur	25669	0 to	2000	*	150.00

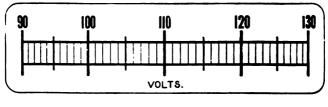
#### Pressure Reducing Transformers.

Where pressure reducing transformers for Wagner Co's, instruments are desired, these will be furnished at following prices:

Acutenoss	25670	1000	10	100	volts
Adags	25671	2000	to	100	* 30.00
Adapter	25672	3000	10	100	" 30.00
Adaptice	25673	5000	to	100	* 42.00

Damping oil, lamps and template for mounting are furnished with each instrument. The lamps are 75 volts, operating two in series on 110 volts.





FAC-SIMILE SCALES OF WAGNER CO.'S

DEAD-BEAT ILLUMINATED-DIAL INSTRUMENTS.



Figure 1,



Wagner Electric Mig. Co.'s Transformers for Power Transmission.

Transformers for power transmission lines, are of forf different forms, namely:

Pirst. Self-cooling dry transformers, in which the hedlosses are dissipated by the natural circulation of the aurounding atmosphere around and through the cods. This form is to be recommended only in small substation equipments.

Second. Self-cooling oil filled transformers, in which the oil serves the functions of insulating and cooling mellus, and also drives out all air from the windings. This form is most admirable, and is to be recommended over the selfcooling dry type.

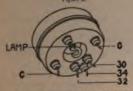
Third. Air blast dry transformers, in which the loses are dissipated by means of a cooling blast of sir, which is derived from auxiliary ventilating fan outfit. This fees is frequently made use of in large installations.

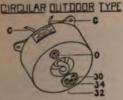
Foorth. Water cooled, oil filled transformers, in which the self-cooling property of the transformer by reason of being oil filled is supplemented on heavy loads by a water cooling device.

Figure 1 illustrate the latest form of the Wagner selfcooling oil filled type. The case is built of corrugated short. The low voltage leads are brought out at the side, while the high pressure ends come out through the cover.

Figure 2 illustrates the water cooled, oil filled type. Is small installations, where the air circulation is good, the water device is not required. But where many transformers are crowded into a small substation, the water coll is a most effective and desirable adjunct.









## Transformers for Power Transmission. —(Continued.)

Figure 3 illustrates the water jacketed type, in which the case is completely channeled by water passages. With this, as with the endless coil type of water cooling, ¡Figure 2) a low pressure head is used. Ten to fifteen pounds pressure is amply sufficient for all requirements.

High tension transformers for any voltage up to 50,000, and for any capacity up to 1000 K. W. will be built to order.

Prices and information to detail given on application.

#### Wagner Electric Mfg. Co.'s 600 Watt Arc Light Transformers.

#### Circular Out Door Type.

This type has a hook for suspension of the transformer on the upper side, and a corresponding hook for suspension of the lamp on the lower side, the latter appearing in the cut. The ratio of transformation is 100 volts to 30, 32 or 34 volts. The line is connected to the terminals marked by the letters C.C. Cast on the box. One lamp circuit wire is connected to terminal marked 'lamp," and the other to either of those marked 30, 32 and 34 as selected. This type is weatherproof. The case is of cast iron, and is finished in black japan.

#### Ornamental Type.

This type is designed to be screwed upon the ceiling where used, and has a hook below from which the lamp is carried. The finish is in highly polished brass. The circuit beads marked C and C in the diagram, come out above. The lamp connections are made to binding posts below, one side of tamp circuit being connected to O and the other to either of those marked 30, 32 and 34, depending on the voltage required at the lamp. This is strictly au indoor type.

#### Rectangular Out Door Type.

The connections with this type correspond exactly to the circular outdoor type. The case is cast-iron with black japan finish.

Code Word.	List Mo.		List Price.
Adamerut	25686	Circular Outdoor Type	. \$15.00
Manior	25687	Ornamental Type	15.00
Adart	25688	Bectaugular Outdoor Type	13.00

#### Wagner Co.'s High Potential Fuse Cut-Out Boxes.

We illustrate two distinct types of independent single-pole occost boxes, for use on the primaries of transformers or as junction boxes on primary circuits. Type XL, operates as follows: On opening the box, the lid comes forward and down, the top porcelain block containing the food frawing out with it. In this was the consumer of the box beats

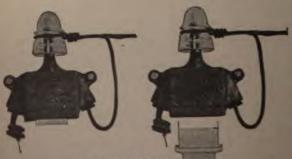
> the circuit. The porcelain thick on taining the fuse is still forther owner able by simply drawing out from its end of the lid, thus entirely detaching it from the box. A spring intensity the block and lid, prevents the third sliding out by its own weight.

The porcelain parts at casely together, the spring at the bid serving also to press the upper half sizes at the lower half. A rabber gasin completes the perfection of the joint This cut-out as subserproof, either perfectly rafe replacing of fases at live circuits and assures reliable their go fuses. The insulator passes mounting it is also a great elevator, saving an insulator flature for every saving an insulator flature for every mended for all transformer and just too box services within the felilies in limits.



Type XL Fuse Cut-Out Box.





transformer work, and is recommended for this service up to a mankers upacity of 5 kilowatta. A reservable porcelain plug carrier the free, and is held securedy in position by the trains of the cannet olige through which the current pairs. readward by spring clips. The free is enclosed by spring clips. The free is enclosed by a size right chamber, and will have as a dead towards may also clearly so point or other flemis ance. The qui-out also meries the resolutor with.

Type	XX	Fuse	Cut-	Out	Box.
12 hr.	45.05				

Code Work	List No.			للخفاة
Adaytion	25674			
Adaysty	25675	Extra Porcelain Black (mod: ball)	200	.71
Alla		Type XX earh	198	3.96
		Extra Purcelaia Programma	-	.73
Addible	25677	True Language Control		





#### Wagner Electric Co.'s Single Phase Alternating Power Motors.

Motors.

The Wagner Co. single phase power motors are designed to operate on circuits of either 60 or 133 cycles. They are induction motors in principle, operating in the following manner-For starting, the armature and field windings are connected in series and the motor runs up to speed exactly as would a direct current series motor. When the running speed has been attained, the armature winding is disconnected from the field and completely short-circuited on itself by means of a ring which slides over the commutator. The motor then runs at a speed slightly below synchronous speed, and carries its full rated load with a drop, in speed not exceeding two per cent. An overload of from 25 to 55 per cent. will be taken care of without trouble. The heating of the various parts of the machine is practically neglible after continuous duty at full load. The mechanical construction is in all respects first class. The bearings are of the self-aligning belowing the same respectively, and, being made of phosphorbrouse, will last indefinitely.

In the smaller sizes the starting operation is performed by hand, a convenient starting awitch being mounted directly on the motor frame. In the larger sixes this operation is performed as tomatically, the only requirement from the atcudant being the closing of the motor which the motor or elsewhere as desired.

Another admirable characteristic is that these motors may be connected upon the same secondary circuits as are incandescent and for lamps, thus avoiding the necessity for additional transformers for motor service. There are or cent-live or disturbing effects on the lights when thus operated in conjunction with motors, as is so objectionably the case with synchronous motors. Furthermore a momentary disturbance of the current author, unless the motor load is of auch character as to ordinarily stap it very quickly when current is cut off.

These motors have practically the same efficiency as the best shunt wound direct current motors, and the fact that there are no brushermuning

60 Cycles.

L Code Work	Autge Pen						E-LARCE.	
Addies	25678	-2	H.	P		5	370-00	ı
Addoma	25679	5	- 10				500.00	ř
Aepuler	25680	10	15				950.00	ı
Actour	25681	15	14			-1	250.00	į
	13	3 C	yc	les.				
Actegor	25682	1	15	H. F	· ann	8	370.00	ı
Actopun	25683	4		49			500.00	ı
Actupia	25684	7	16	*	LALL		950.00	A.
Antone	25685	10		1			250.00	а



72-inch Direct Connected Unit.

## Wagner Electric Mfg. Co.'s Direct-Coupled Ventilating Outlits.

These outfles are built for operation on 10, 20 states of the motors are not polars, with self-aligning, self-oiling bearings. The self-aligning, self-oiling bearings. The self-are muscless and deliver a maximum volume of self-or a minimum consumption of driving energy. They are furnished for erection in two ways, six supported on a substantial cast from base or carried by means of flanges on the outside of the sneet scel casing

Promps delivery can be made on the sizes listed below

Diameter of Fan in Inches.	No of Speeds	Max capacity to cubic lee per minute	Mas revisiotions per minus	Price
21	12	9,000	1,500	a 250 500
34	12	18,000	1,000	600, 650.
48 54	12	30,000 40,000	800 750	1,100
72	15	75,000	400	1,300

Write for Discounts.

#### POWER TABLE.

1	8	SIZE OF FAN.	24	- 30	34	36	42	48	54	60	41
	600	Cubic fees per M R. P. M	1884 310 .066	2940 247 .103	3780 220 .132	4236 206 .148	0778 177 ,208	7536 155 .271	9540 137 .353	11778 124 .435	1000
animine a	900	R. P. M	464	4410 372 258	5670 332 .360	6354 310 .413	9658 265 588	232	14710 206 1.000	17947 185 1,553	25473 130 1,800
	1200	Cubic feet per M R. P. M	3768 618 .256	8880 496 .477	7500 441 .650	412	11564 353 1.083	310	19080 275 1.908	23556 247 2.400	33954 319 3.500
Vercency	1500	Cobic feet per M. R. P. M. H. P.	4710 773 400	7350 620 735	9450 552 1.012	10590 515 1.165	14430 441 1.700	18840 386 2.350	343 3.250	29445 308 3.820	STEE STEE
100	2000	Cubic feet per M R, P. M	6280 1030 ,805	9800 822 1.420	12600 734 1.954	685	19240 585 3.310	25100 514 4.570	31800 454 5.180	610	341

### TABLES.

In all the tables on determining the size of wire, the distance is the number of feet between the source of supply and the lights, and not the length of the wire.

Lamps.	AMPERES PER LAMP.										
volts	52	75	110	220							
10 C. P.	.6	.43	. 32	.22							
16 "	1.0	.43 .68	.5 .64 .80	.33 .40 .50 .65							
20 "	1.25	.86	.64	.40							
25 "	1.54	I. 10	.80	.50							
32 "	2.00	1.36	1.00	.65							
25 " 32 " 50 "	3.10	2.20	1. <b>6</b> 0 ·	1.02							
100 "	<b>6</b> .20	4.30	3.20	2.05							
150 "	9.30	6.40	4.75	3.07							

## WIKING TABLE FOR TWO PER CENT LOSS ON 50 VOLTS (TABLE FOR I VOLT LOSS).

No.of Amperes	Distance in feet to center of distribution. (Wire sizes are indicated in B. and S. Gauge )																	
No.	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	250
1								****				16	16	15	14	14	13	12
1.5	ier	*****	****		****	*****	400.64	1444		16	15	15	14	13	13	12	12	11
2	****		·		*****	****	16	16	15	14	14	13	13	12	11	11	10	8
3				16	16	15	15	14	13	13	12	12	11	10	10	9	9	8
4	****	16	15	15	14	14	13	13	12	11	11	10	10	8	8		7	6
5	16	16				13	12	12	11	10	10	9	8		7	7	6	5
6		15				12	12	11	TO	10	8	9		7	7 7 6	6		5
7	15					11	II	10	10	98	8		7	7	0	5	5	4
					II	10	10		8	8	7	3	7		5	5	4	6.4
9					10			9	8	7	7	6	6	5	4	4	4	3
12				1				8	7	7	6	6	5	4	4	3	3	2
14							8	7	7	6		5	4	4	3	2	2	ī
16					1 2	8	7	7	6			4	4	3	2	2	1	0
18					8	7		6		5	4	4	3	2	2	1	1	0
20							6	6	5	4	4	3	3	2	î	1	0	00
25			8	7			5	5	4	3	3	2	2	1	0	0	00	00
30					6		5	4	3	3		2	1	0	0	00	00	000
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#### WIRING TABLE 2 PER CENT LOSS 220 VOLTS.

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14	1.		16	15	14	14	13	12	12	11	II	10	9	9	9		7	6	6	
16	1		16	15	14	13	12	12	TI	11	10	9	0	8	8	7	7	6	6	113
18	1.		15	14	13	12	12	11	II	10	9		98	8	7	7	6	5	5	
20	1	16	15	14	13	12	11	11	10	10				7 6	7 7 6	6	5	5	4	
25	1	16	14	13	12	TI	10	10	9	0		7	76	6	6	5	4	4	3	
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# WIRING TABLE FOR 100 VOLTS.

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E	1	8880448400F405HXXX

From Wirring Tables, How They Van Made and How to Use Them. Copyrighted, 1897.

COMPINS BY THOS. G. GRIER

#### WIRING TABLE FOR 50 VOLTS.

Per cent. loss at 50 volts. Wire sizes in it & 5 gauge.	The figures at the top of each column indicate primary current in amperes Distance given below in feet to center of distribution.
3. U.5 0.3a	1

#### WIRING TABLE FOR 220 VOLTS.

Win	n niz	cess:	Tell,	in B	48	gat	ge.		n	be figu	res at l	the 100 e gives	of ea below	e lu fe	et to o	ente	SE CHE	rrest (intri	s in a	en per	100		
2.	2.5	3.13	6.5	5.	6.2	8.1	10.	<b>66.39</b>	123	1.3	4.	061	8.1	10	20 1	30	40	50	60	70	80	190	100
	-	-					00000	253,100	107.560	71,720	53,790	35.860	DE RINTY	21.516	10.75	7.172	5 379	4.3000	T SHIP	3.074	2 600	O MAIN	E 1/
-	_	_	•			4000	000	170,500	85,250	68,530	42,630	28,410	310	17,050	6,505	5,083	4.263	3,410	2,541	2.430	2,131	1,001	55
-	_	_	-	•	00000	1000		155, 330	67,760	45,170.	23,840	22,580	16,940	13,550	6,776	4,517	1.300	2,710	0.054	1.922	1,6004	156	13
-	_	_		0000	000	- 00	100	107,580	53,790	25,560	26,900	17.930	12,450	10,738	5,3750	3,586	2,690	2,152	1.790	1.536	1,345	1,195	10
_	_	-	10000	000	00	- 65	2	85,380	42,730	SS.530	\$1,400	14.260	30,850	8,558	4.2793	1,800	2,140	1.712	1,425	1.293	1,085	3651	100
- 2		00000	9000	00	18	X	2	67,380	33,990	22,500	17,000	11,330	8,300	6.798	3,399	2,505	1,700	1.36	1,133	971	850	750	No.
ш	XXX	900	- 00	9	12	-3	- 3	53,900	26,500	17.970	13,490	8,580	6,740	5,390	2,695	L 797	1,346	1.078	RESE	770		599	B
000	SAM.	100	- 9	- 1	3	- 3	10.5	42,680	21,340	14,230	10,670	7,110	5,330	4,208	2,134	1.425	1,057	854	211	670	- 533	475	1
000	œ	. 9	- 1	- 3	-3	- 5	2	33,883	16,940	11,250	8,470	5,610	4,230	1,28	1,6900	1,129	847	678	564	484	423	375	100
100	- 0		-	- 3	100	- 5	//5	26,840	13,420	8,950	6.710	4,470	3,250	2.654	1,340	1600	671	200		383	200	256	13
- 2	-	-3	-		- 24	- 5	113	21,340	10,676								- DOK	427	350	35	207	236	12
ă	- 3	- 3	- 5	- 3	- 3	3	- 5	35,933	8,460			2,820					425	226	202		201	186	
- 3	- 2		- 9	1 3	8	- 3	-31	13,420				2,230						268	233	196	396	100	
- 2		2	- 2	1 5	2	100	38	10,688			2,670		1,530		533			213			133		
- 2	2	2	- 5	2	100	100	33	8,450	4,230					845	422	200		100	141		200	want.	-
2	2	1 2	- 3	100	30	11	8	6,600						000	333	223		134	111	Leen	26		-
- 5	- 2	-	-	ii	112			5,390	2,650				-960	530	265	177	138	100	85				
- 5	2	- 2	-57	22	- 45	10	14	4,220	2,110				530	422	211	341		84	-		1 220	Folk.	
3	Yo	n	10 11 12	13	35 14	13	10	3,340	1,570			7550	420	334	167	HIL		190	here			-	
10	10 11 11	12	13	14	13		AT	1,690	1,330		670 500	440	330	396	133	25	67	***	***	1 h	D. =	1.39	200
10	22	13	14	120			1000	2,010	1,000				220	201	100	97		P***	2117	3 80	OR -	. 2.20	N
10	11	14	15			***			840 670	5(0)		280	370	1/37				-			-	delet	201

ampiled by Thus. G. Grier from "Wiring Tables, How They are Made and How to Use Them." Copyrighted.

#### WIRING TABLE FOR 440 VOLTS. '

Per cent loss at 440 volts.  The figures at top of each column indicate corrent in a The distance given below in leet to the center of distri	mpere	mper	eres.			
2. 2.5 (3.10) 4. 5 (3.3 9. 10) 1 2 3 4 5 6 8 10 15 20 20 20 40 40 40 40 40 40 40 40 40 40 40 40 40	50 8, 400 6 8, 420 6 6, 420 6 9, 420 6 9, 420 6 9, 420 6 9, 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 105 6 1, 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#### The Metric System. cominations and | Equivalents in Denomina-Table of Decimal Equivalents 8ths, 16ths, 32ds and 64ths of an Inch. FOR USE IN CONNECTION WITH THE MICROMETER CALIPERS. 19 = .296875 8ths. 2 = .28125 31 11 32 = .34375 21 = .328125 64 = .359375 ₹**=**.125 $\frac{13}{22} = .40625$ 1=.250 15 46875 §=.375 390625 $^{17}_{32}$ = .53125 $^{19}_{32}$ = .59375 1=.500 27 - .421875 $^{99}_{64}$ = .453125 $^{31}_{64}$ = .484375 €=,625 $\frac{21}{32}$ = .65625 $\frac{23}{32}$ = .71875 2-.750 -.875 $^{33}_{64}$ = .515625 $^{35}_{64}$ = .546875 $^{25}_{32}$ = .78125 $^{27}_{32}$ = .84375 16ths. $^{87}_{64}$ = .578125 $^{89}_{64}$ = .609375 70TH. 5.2137 miles. 5.62137 m. or 3,280 ft. 1-0625 $^{29}_{32}$ — .90625 $^{31}_{32}$ = .96875 3 16=.1875 41 - .640625 5-.3125 =.671875 -.4375 64ths. 45 — .703125 47 — .734375 -.5625 $^{1}_{64}$ = .015625 $^{3}_{64}$ = .046875 11=.6875 $^{49}_{64}$ = .765625 $^{51}_{64}$ = .796875 13 - .8125 8 - .078125 -.9375 ·-- .109375 64 - .828125 65 - .859375 32ds. 0 = .140625 11 = .171875 -.03125 57 = .890625 50 = .921875 13 = .203125 64 = .234375 3-09375 =.1562561 - .953125 63 - .984375 =.21875 11 = .265625

#### WIRING TABLE FOR 500 VOLTS.

Wit	Per e siz	es gi	t. lo	ss at	500	gau	ige.		ents i	at the	eres.	Dis	tance	Rive	n bel	
2	2.5	8.15	1.	6.	6.0	8.	10.	30	35	40	50	60	70	80	90	100
	0000		pagage pagami	0000 000 00 00 1 2 3 4 5 6 7 8 9	0000	000 00 0 1 2 3 4 5 6 7 8 9	00 0 1 2 8 4 5 6 7 8 9 10 11 12	12,910 10,260 8,150 6,480 6,150 4,080 3,290 2,670 2,030 1,617 1,281 1,016 807 640	13,970 11,070 8,800 6,985 5,555 4,418 3,500 2,772 2,200 1,745 1,385 1,098 871 691 548 435 344	7,700 6,110 4,860 3,860 3,000 2,425 1,925 1,520 1,210 961 760 605 430	7,750 6,160 4,890 8,890 8,090 2,450 1,940 1,540 1,220 970 709 610 484	6,458 5,130 4,075 3,240 2,576 2,030 1,616 1,285 1,015 808 640	5,535 4,400 3,490 2,777 2,207 1,750 1,386 1,100 672 692 549 435	4,850 3,650 2,055 2,480 1,930 1,530 1,212 960 605 480 880 A1	4,300 3,430 2,715 2,160 1,716 1,350 1,077 857 676 539	8 676 8,080 2,445 1,945 1,545 1,225 970 770 610 485 306

#### WIRING TABLE FOR 500 VOLTS.

1	50.1		-	9.3	8.	80.	-	_	Distant										
							100.00	gar.	100	BASE !	5	1 6	7	8	9	10	15	30	20
88	1	_				0000	400,000	264,300	163,000	122,250	97, 800	81.500	60,660	61.125	54,500	48,900	32,600	34,400	IR.M
-					CONTRA	DA	347,500	194,000	129 150	97,000	77,500	64,575	55,360	48,500	435, citico	38, TM	25,100	19,400	30,50
		400		14000	DOM	ш	A10,900	154,000	202,650							30,500			12.5
		-	SHARE	DOD	96		344,300	123,300	8L.000										9.7
-63	-15	1000	DOM	ш	100	8	134,500	25,300	64,500							19,450			3,3
	_)368	100	905	ш.	- 5		254,500		\$2,500									1,720	8.3
-02	00 0	9					123,500	62,300								12,250		6,120	63
00 0	00 0	386	3 3	986		188	87,000	48,500								9,700			33
200	<b>73</b>		-		5		TT,000	38,500				12,835			8,550	7,700	8,130		2.0
738	30	5 3	•	1110			44,500	26,200		25,200	9,700				5,800	6, 100	8,000	3,040	24
а.	20	2 0	1 2	100	ma.		20,450	19,220		9,620		6,407	6,925	6,050	4.270	35,845	2 565	1 1723	100
н	211		-	₽.			NO. NO.	15,200		7 600		5.075		8,800	9 205	16 40543	2.000	1.520	10
811	200				ю.	r	34, 300	13,100		6.000		A (600)		3.005	2.690	2,420	1.618	1,310	100
2	9111	3		100	100	17	79, 300	3.500		4.800	2000	3,300	2 740	2,400	2 195	1.920	1 20	2000	
n n	200	10 8	-	100	1	13	15.200	7,600		2,900	9.040	2.520	2.175	7.900	1.686	1,520	1,018	701	
2	3	B 3	10	11	12	1013	12.200	6,030		3 016	2.410	3.007	1.790	1.005	1.34D	1.210	PERM	A250	
23		M 35	21			34	9,600	4,800		2,400		1,500	1,570	1,200	1.066	960	640	429	
AL.	8 3	m 25		25		35	7,600	3.900		1,900	1,530	1.270	1.085	360	845	260	708	380	
	300	1 12	13			115	6,050	5,025						786	671		408	36	
MI	13 7	2 23	34	13	16	-	4,500	2,400		1,200		900	686	600	533	480	300	AT SE	Luci
		34	35	16		-	3.905	1.905		961		635	544	475	422	390	254	-	200
220	20 3	4 E	16	-	-	-	3,000	1,510	1,005	756	604	502	431	817	336	302		lh.p.	

#### WIRING TABLE FOR PRIMARY CIRCUITS, 1,000 VOLTS.

For cent, toss at 1,000 volts. Wire alses given in R. & S. guage.	The figures at the top of each column indicate primary currents in amperes.  Distance given below in feet to center of distribution.
2.   2.88.15 4.   5.   6.3  8.  10.	1   15   2   3   4   6   8   10   12   14   18   18   20   25
1000	978 (00) 522 (00) 189 (10) 125 (00) 244 (00) 163 (00) 122 (25) 97 (90) 91 500 9 820 61 (125 54 (20) 44 (90) 5 19 175 (00) 5 16 (00) 457 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 45 (50) 4
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0000 000 00 0 4	4-9, 000325, 000-244, 500363, 000 322, 200, 81,500, 61,10048,500 40,73454,92530,55057, 15034,45 19,500 389, 000259, 330 394, 500 329, 600 57, 200, 64,8,00 48,800,38,90032,40027,780,34,30023,60039,45038,800
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0000 000 00 0 2 2 3 3	194,00, 129,330 97,000 64,600 48,500 32,300 24,256 89,40016,150 13,950 12 125 10,800 9,700 1,70 154,000 102,620 77,000 51,300 38,500 25,650 19,25015,40012,92511,000 9,625 6,550 7,700 6,100
00 0 1 0 0 0 0 0	122,004 81,534 61,000 40,693 30,400 20,331 15,20012,20010,163 8,725 7,600 6,800 6,100 4,800
1 1 1 1 1 1 1 1 1 1	93,000 61,600 48,500 32,300 24,300 16,170 12,100 9,700 8,085 6,925 0,030 5,400 4,80 2,000 78,900 51,300 38,430 25,630 19,230 12,815 9,610 7,680 6,407 5,490 4,805 4,270 3,845 1,676
3 4 5 6 7 8 8 3	61,000 40,660 80,500 90,300 15,300 10,150 7,600 6,100 5,075 4,350 3,900 3,865 8,050 8,400 4,000 31,260 24,200 16,130 13,100 8,065 6,060 4,940 4,022 8,455 2,025 2,000 2,400 1,000
4 6 7 7 6 9 10 11	38,400 25,600 19,200 13,600 9,600 6,400 4,800 3,840 3,350 9,740 2,400 2,132 1,900 1,500 30,400 20,360 15,200 10,130 7,600 5,665 3,800 3,040 2,502 2,175 1,000 1,680 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,50
6 7 8 9 10 11 10 11	24.100 16.060 12.100 8.080 6.020 4.015 3.010 2.410 2.007 1,730 1,506 1,340 1,210 964
8 9 10 11 11 13 14 15	15,900 10,130 7,600 5,070 3,600 2,535 1,900 1,520 1,520 1,655 950 845 760 600
0 10 11 12 13 14 15 16 10 11 12 13 14 15 16	9,001 6,400 4,800 3,200 2,400 1,600 1,200 960 800 686 000 \$33 480 284
13 13 14 15 16	7,610 5,070 3,905 2,540 1,9°2 1,970 651 761 635 544 478 422 340 545 6,040 4,020 1,020 2,010 1,510 1,000 755 604 546 431 577 526 578 944

#### WIRING TABLE FOR PRIMARY CIRCUITS, 1,000 VOLTS.

WI	Per re st	cent.	Joss Ven	at 1, m B.	000 v	olts. gau	ge.	The	figure	Dista	e top o	f each	colum low in	in indi	cate p	rimary r of di	curre	iete in	amper	d.
2	2.5	3.15	土	3.	6,3	8.	10.	30	35	40	45	50	00	w	65	70	76	80	90	100
-	-				悪	0000	(KOD	25,830	22,140	19,400	17,220	15,500	14,000	12,910	11,930	11,070	10,330	9,700	8,810	75
				auna.	0000	C00	00	20,530								9,500			6,840	6,16
			0000	000	-00	0	1	12,960	11,110	9,730	8,645	7,780				5,555		4,850	4,320	
-	-	0000	000	00	0	1	2	10,300	8,830	7,720		6,180			4,704	8,435	4,120	3,060	3,430	200
0000	(300)	00	0	1	2	3	1	6,460	5,544	4,850	4,311			3,230	2,965	2.772	2,585	2,495	2.100	I PAI
000	- 00	0	1	2	3		8	5,130	4,400	3,850	3,422	3,080	2,330	2,070	2,309	2,200	2,050	1,935	3,710	1,540
0	1	2	3	4	6	6	7	2,230	2,771	2,420	2,156	1.94C	1,704	1.617	1,492	1,385	1.293	1,210	1,080	979
1	2 8	2	4	0	6	7 %	9	2,563	2.197	1,922	1,700	1,538	1,398	1,016	1,183	1,008	1,005 8IS	760	85A 677	910
3	4	8	6	7	8	9	10	1.613	1,383	1,210	1,076	908	880	807	745	681	645	608	538	404
4 5	8	8 7	7	8	30	11	11	1,018	1,097	760	675	768	668	806	406	435	405	280	427	100
6	7	1	9	10	11	11	33	803	680	602	835	4152	438	401	370	344			SIA. I	23
7	8	10	10	217	12	14	14	640 507	549	390	496 338	314	349	220		-		-	16	in.
9	- 10	21	10	13	34	10	16	-408	346	302	250	11141				ALI	,000 110	dia.	36	900
10	32	12	14	20	36	10		354	237	286	10000		*****			1h.p.	= 74	Sin.	50	Di
111	13	34	15	216				201					100.00			Ia.	= 13	4 h.p.	100	.45

#### WIRING TABLE FOR CIRCUITS, 2,000 VOLTS.

-	-	-	-		-	-		-					September 1		-		-	_		_
PUT VALUE WITO ALDE						-	he figur	CAVAL.	ance gi	of enci	low 7n	nn Inc	licate	prims	ry cur	rents	in am	peres		-
		-	_	-		-	-	271810	stice Rr.	VEU DE		2000	-	ea or	4121111	union	1	-	-	120
E   E.O. 6	1.5.	0.3	5.			16	- B	12	10.0	20	31		702	AO	50	100	70	80.	580	100
				11000	489,000	\$25,000	244,500	168,000	122,250	97.SAN	81,500	00.850	61.125	45,500	(89,120	32,600	27,940	24,450	21,730	19,560
			DEED	000			194,000													
_		DESCRIPTION	<b>TAGE</b>		300,000															
	DOCK	THE	CXX		244,500															
OLN.	XD  000K	100		1	191,500														8,645	7,780
0	N 90	0	- 1	2	154,500	103,000	77,200	51,500	38,600	30,900	25,750	22,075	19,300	15,450	12,760	10,300	8,830	7,720	0.867	6,180
[D000] (	XX +	1		- 3	122,500	51,660	61,200	40,830	30,600	24.500	20,415	17,500	15,300	12.250	9,800	8,166	7,000	6,120	5,445	4,900
1001 (000)	0 3	3		4			48,500													
10 114	1 2	3		- 5	77,000		38,500												3,422	3,080
15 10	2 3		3	- 60	61,000						10,165								2,711	2,440
2 E	H 4	- 0	6	7	48,500			16,170									2,771			1,940
3 8	4 3	6		8	38,450	25,630		12,815			6,407			3,845					1,709	1,538
8 5	8 4		18	:9	80,500	20,300		10,150												1,220
3 5	5 7	0		10	24,200	16,130										1,613			1,076	968
5 5	11 8		10	111	19,20			6,400			3,200		2,400	1,020				960		*****
3 9	B 3	119	11	12	15,200									1,520	1,316			7601	7+++	*****
5 5 .	0) 10	ALC: N	100	13	12,100			4,035				1,720	1,505		964					
2 2 1	11	13	3/3	3.5	9,600	6,400		3,200	2,400	1,920	1,000	1,370		960	768	*****	*****	At 2	000 vo	lts.
2 .2	A 72	5 525	- 55	15	7,600	5,070	3,800	2,585	1,900				950	760	*****	*****	*****			
N 313	E 13	14	40	16	6,050			2,015				864	756	605		estate	******	Tho.	= 37	2 4
22 20 3	7 4	100			4.900	3.200	2,400	1,00	1,290	960	635	544	600	450	*****					
10 10 1	2 53	10		****	3,805	2,540	1.902	1,270	951	761	503		475	*****		*****		Inc.	= 2.00	np.
AR 5-8 1	MI 217	THE REAL PROPERTY.	THRE!	4 44	3,020	2,010	1,510	1,005	755	1994	- 303	431	200		AND LONG	*****	SALARES			

#### WIRING TABLE FOR CIRCUITS, 3,000 VOLTS.

-	-	-	_	-		-		AD		OIL	CITA	001	, 0,	0,1	000		02				
		DL is Litera s						The	figures	at the	top of a	below	in fee	todica t to ce	nter o	many o	ibutio	ts in an	mbere	Se .	
10	2.5	Li	h.	6.5	8	In.	3	6	L. B	12	18	-24	30	36	1 42	1 48	06	(4)	75	90	103
_			-	m	m	DOWN	978,000	489,000	3225,000	244,500	165,000	122,250	97,800	81,500	60,850	61,123	54,300	48,500	39,190	32,600	27,940
					7000	000				194,000											
		-	-	1000	000	100	616,000	368,000	200,300	154,000	102,650	77,000	61,600	01,323	44,000	38,500	34,200	30,80	24,646	20,530	17,600
		homis	CONT.	No.	W	-	489,000	204 JOK	163,600	122,200	81,000	61,100	000,849	10,750	34,500	30,330	27,150	10,450	15,560	10,300	13,970
		000	100	10	ĭ	-	309,000	154.5(X)	103,000	77,200	51.500	58,600	30,900	25,750	(20 07)	19.300	17,150	15 450	19,360	10.300	8.800
	COXX	00	D	1	2	3	245,000	149,500	B1.680	61,200	40,830	30,600	24,500	20,415	17,500	15,30	13,600	19,950	9,800	8,166	7.000
1000	COX	1	1	2	3					48,500											
000	f a	1	2	3	4	5			51,300			19,250									
90	9	2	- 3	4	5	6				30,400	20,339	15,200	12,200	10,165	8,72	7,000	6,800	6,100	4,880	4,065	3,490
n,				9	9	1	70,000			24,200	10,170	12,100	9,700	8,080	6,923	6,000	5,400	4,800	3,880	3,230	2,771
				7	- 4	9	(0,000	38,450		19,220		7 600	6.700	5,075	4 950	9,800	0.005	3,845	9 440	9,030	1.743
S.		0	7	8	9	10		24,200				6,050	4.840	4,632	3,455	3.025	2,590	2.420	1,906	1.613	
	1 1	7	8	9	300	11	38,400											1,920			
.0		8	8	10	11	12	.30,400		10,139				3,040		2,175	1,900	1,688	1.520		· · · · ·	
		1	10	17	12	13	24,100					3,010	2,410			1,505		1,210		-	3
1		100	31	12	14	14	19,200						1,920			1,200			At3	,000 ve	olts.
		70	15	71	10	16				3,800	2,535	1,512									-
30	31	13	170	23	36											200		7	1 hp.	= .2	18 H.
11	12	1 74	15	16	1000	6426	7,610	3,805		1.000									In.	= 4.0	2 hp.
22	13	10	34				6,040					735									-

#### WIRING TABLE FOR CIRCUITS, 5,000 VOLTS.

		with.						T	to fig	are	Dista	e top of	each co	oluma v in fe	indi	cate pr	of dis	curre	nts In	amper	es.
L	E	1.4	2.	2.5	3/2	100	5.	2.5	1 4	Sec.	10	15	20	25	30	1 35	1 40	45	1.50	1 75	100
					100	100	0000	978,00	U 489	000	344,500	163,000	112,250	97, BK	81,50	069,850	61,12	554,80	048,50	0.22,600	24,450
					Section	0000						129,150									
				mi	UUU	00						102,650									
			0000	000	00							81,500									
		DODO		OXX	0							51,500									
	0000	000	00	- 6	( 1	2	ä	245,00	0 122	500	61,200	40,830	39,6EXX	24,500	20,41	5 17,500	15,300	(13,60)	0 12,250	8,166	6,120
0000	DOC	00	0	1	2							32,310									
(900	CE				3							25,630									
1.0					4	2					30,400			12,200	10,16	8,72	7,600	6,80	6,100	3 2 2 2 2	2,420
		3			P.		- 6	76,90		450											1,922
		To A	A	6	1 7		ŭ	61,00												2,030	
		A		7	8	9	30	49,40			12,100	8,065								1,613	
	D	- 5	7		9	123	11	38,40		200						2,740				1,280	
1 2		1			100	10.00	12	30,40		200			3,900								
			30	11	19	12	12	24,10 19,28		600	6,020 4,800		3,010	1,920							
i i	. 0	2/1	11	19	15	I.b	15			600	3,800		1,900	1,820				841			
	10	31	72	13	14	45				050	3.025								_	-	The second
Dis.	11	12	23	-11	15	III		0,00		800	2.40	1,600	1,210	960	606	686	600			7 000,	
14	14	1	34	15						HIS	1.9(2			763	630					.= .1	
11	- 10	- 14	80	40	212	2151	2.06	0,04	z 2,	(020)	1,510	1,000	755	6004	000	d	-	1000-00	A Shy	== 6.7	np.

Free Thee G. Gries's Note Book of Wiring Tables. (Copyrighted.)

#### Bare Copper Wire.

SPECIAL PRICES QUOTED ON ESTREE SOFT OR HARD DRAWN,



-				—Wedgisk	STOP	.or W			met with	
71	*	Captul	distant in	法权	E	700		-	Park per Olah	
000	460.000	211600,00	106190	630.88	8875.7	1.86	.04906	.90008	30000.	.0007575
000	400,640	167805.00	181790	507 01	2677.0	1 97	00198	20054	16165.	99012999
00	364.800	133079.40	104860	403 00	2128.0	2.40	07801	41187	19000.	,0001912B
0	324.900	105564.80	82983	819.04	1004 5	2.13	.00681	81900	10400.	,0000777
1	260,800	89691.50	65788	202,88	1235.9	2.96	.19404	.05400	8000.8	,000,000
2	367.630	66873,00	59180	200.54	1058.8	4.90	15640	80000	6306.7	.0077000
8	250,430	59694.00	41899	180.03	830.68	6 22	.19723	1.0414	8070.3	.0013464
4	204,310	41749.00	39784	196.13	10.200	7.90	34800	1.8181	4001.0	.0019721
5	181.940	83109,60	20006	100.01	898.06	10,00	31361	1 6568	8166 7	.0001301
•	100.000	98260.80	20617	79.38	418.61	12.61	.30546	2.0001	2008.7	000000
7	144,300	20816.00	16849	68,60	630.11	18.90	.49871	2.0001	2000.3	,00770004
8	128.490	16500.00	13906	49.86	203,87	20.06	.00001	3.8901	1500.8	,012006
•	114,430	13094.00	10964	30,56	200,88	96.96	79961	4.1800	1261.8	.000001
10	101.800	10861.00	6159.9	81.87	165.05	81.86	1.	8.9900	1000.0	.001300
11	90,749	8984.00	6467.0	94.66	187.87	40.30	1.9007	6.0006	798.18	.000001
13	80.808	6500,90	5198.6	19.78	104.18	50.00	1.0000	8.8040	000.00	.00005

#### Dimensions and Resistances of Copper Wire.

LARGER	TRAN	No.	0000	B.	å	8.	

				-		_		Appresionate	11
	D.		Ciproler	Post per	Up. per	Fort per Olem.	Obes ptr	Sallis Corrying Cognety Amperos	(1) (1) (1)
5°	- 11	515	265225	1.9968	.8088	24608	205776	875	251 3
6.	ii	575.	880635	9988	1 0000	81986	.163075	457	906 1
7*	ii	640	409800	.8070	1.2391	38843	188944	523	342 3
8°	H	710	504100	.6557	1.5950	48760	.108986	690	414.8
9.	Ħ	785	616335	.5364	1.8643	59615	086586	709	au
10°	žĬ	865	748225	.4416	9.2585	78385	072941	786	596 9
11°	11	950	902500	.8863	2 7202	87808	.080495	849	360.
13.	144	1040	1081600	.9181	3 2720	104641	.050450	940	630

#### Galvanized Iron Telegraph Wire.

SPECIAL PRICES QUOTED ON APPLICATION

Can be Furnished also in Two Ply Twisted, for Guy Purposes. Western Union Standard



		8p. Grav	. 7.74.		
_		Weight in	-Resist. in B.A.	Ohana at 77 F	
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2008   158		20406 20407	126	20/19	1.6	21027	133	911.34		. 21454	157 179
### 27.50   1.50   2.50   2.50   1.50   2.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50		40-46	126	343	1 1 20	i 21024			170	21.654	179
Section   15		26.00	196	"Merry	130	21105			170	21.154	1 1 1 1 1
Section   15		20.01	126	393	170	210.50			170 -	21300	179
20.52 7 9 20.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		28746 2≥761	1 1 76	20926	1.0	21029 21029	164	. 21144 21145	170 .	21 1/72	254
20.52 7 9 20.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		2C.77	70	200-7		1 21031	166		170	213-3	2.3
10			20	20029	1.39	! 21643			170	21365	23
100   200   100   200   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100		20127	1 20		1.19	210(1)	17× 1	11160	171 -	21.447	23
100   200   100   200   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100		26.23 26.23	70	38644	1.30	21097	174	1 91152	171	213/9	233 253
1976   1977   1980   1981   21042   178		20.00 20.61			1.57	2144	175	. 21153 1 21154	171	21.50	250
1976   1977   1980   1981   21042   178		20782	105	217436	130	21(4)	175		121 1	21372	Zu
Section   1377		20764	137	1 20036	139	21042	174	21177	' 171 .	21374	20
176   2991   120   2106   124   2106   124   2106   2107   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208   2208		40704	137	20040	130	21041	174	21150	171	: 21.676	2:20
### 1975   1984   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995		20747 20748	137	9842	1.0	21046	124	21100 21161			250 260
### 1975   1984   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995		39740 39570	134	20%1	, 1,39	2104	191.	21162	; 171 ;	21379 21360	260
### 1975   1984   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995		2471	138	20:45			10.	2111-4	i i i i i i i i i i i i i i i i i i i	21341	2600
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100			24	50,47	1:0)	21052	16.1	21100		21363	30
2007   194   192   1960   199   1960   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   196   1		26775	336	20049	157	10-4	162	2119-5	197	21355	200
## 143		2017	1 22	3901	139	210-6	174	21170	197	21 5-7	29)
100   1972   198		19778 19778	1 1 1	400		11977		21171	1,07	213 <b>-9</b> 21.car	'930
100   1972   198		20854	50	9854	140	21000	161	211.20	17.4	2124	330
100   1972   198		20050	199	27856	. 14)	210-1	144	. 91.01	173	213574	200
100   1972   198		200	102	1: 2804	140	21074	1(3)	. 21,04	1 173	21.86	950
100   1972   198		20962 20961	100-192	207.420	140	21021	1/2)	21.66	173 .	21.007	2014
2008		200	1 100	: 9844 ii 9842	140			21.44	173 173	21 AM 21374	244
2007   192		20045	184		140	21004	172	21294	17.1	214-0	254
2007   192		91,007	194		143	210%		21210	17.3	214 /2	29
2007   192		20160	184	1 1007	1 (40	. 214 4	. iai	21212	17.4	. 21404	ادوكا
2007   192		20070 20071	194	1 9660	16.1	1000	191	21214	. 173	2160	26.1
2007   192		20672 20673	164		1 169				1.3	214 F 214 B	23
2007   192		20474	192	20072	1 1679	21979	1974	11717	17.3	21400	י ניני
107   2000   107   2110   170   1734   173   2110   250		39176	192	2004	tice .	25005	127	1 21.19	173		264
107   2000   107   2110   170   1734   173   2110   250		20674	192	il 2006	160	2000	i	1 21.721	1 12	21413	2:5
107   2000   107   2110   170   1734   173   2110   250		20640	153	28774	ini	21000	. 121	21142	1 173 '	21415	2/3
107   2000   107   2110   170   1734   173   2110   250		:1040 L 20402	189	1 3240	110	. 21101	1 100	.: 21.525	' 173 '	21417	3/3
107   2000   107   2110   170   1734   173   2110   250		20053	1+9	35-1	1 10	21102	169 113	11.59	. 171 .	_1414	24
107   2000   107   2110   170   1734   173   2110   250		2003	1146	200	101	21104	1.0	21224	173	214.0	23
107   2000   107   2110   170   1734   173   2110   250		Stat?	185	300m3	169	21100	170	. 21230	173	332	2014
107   2000   107   2110   170   1734   173   2110   250		2014) 2018)	196	3847	1079	1 21103			173	214.4	2-3
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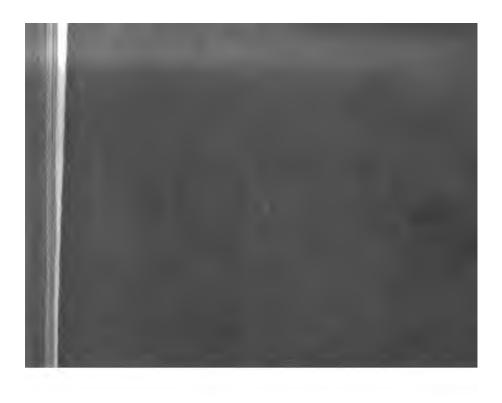
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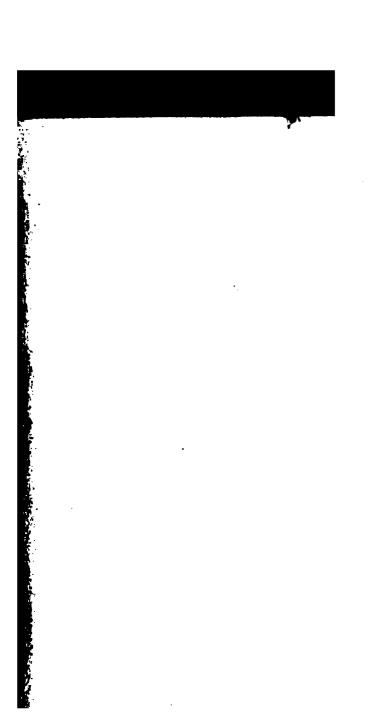
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Cibbe   12   15   17   16 to 20   20   17   16 to 20   20   16   16   20   20   17   16   20   20   17   17   16   20   20   17   18   20   20   20   20   20   20   20   2	Four-wire, C. S	Tree 1 commers - pro- market market and 188	Violentite Lamp Conf.
Harf   16 to 20, 22   Triceolored Lainps   200   Trimper for Brass Armored Conduits   201   Trimper for Brass Armored Conduits   202   Trimper for Brass Armored Conduits   203   Tripper for Brass	G1bbs	"Tree " Wire Holder 435	Vincanite Lamp Cord.
Heat Begulating   29   Trimmer for Brass Armored Conduit,   Valenatived Fiber sheet   Valenati	Hart 16 to 10 90	Tri-colored Lamps	Vulcanized Fiber Rod
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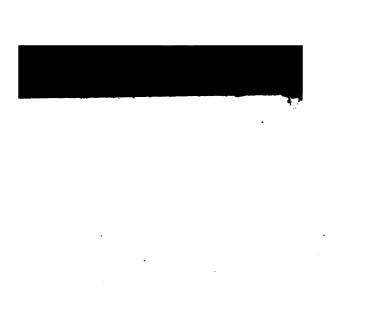
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